ROAD REPAIR AND ACCOUNTABILITY ACT OF 2017 PROJECT BASELINE AGREEMENT

Build N	North Coast Corridor Batiquitos in San Diego County	
Resolution	SCCP-P-2324-03B	
	(to be completed by CTC)	

1.	FUNDING PROGRAM
	Active Transportation Program
	Local Partnership Program (Competitive)
	Solutions for Congested Corridors Program
	State Highway Operation and Protection Program
	Trade Corridor Enhancement Program
2.	PARTIES AND DATE
2.1	This Project Baseline Agreement (Agreement) effective on December 7, 2023 (will be completed by CTC), is made by and between the California Transportation Commission (Commission), the California Department of Transportation (Caltrans), the Project Applicant, San Diego Association of Governments, and the Implementing Agency, San Diego Association of Governments, sometimes collectively referred to as the "Parties".
3.	RECITAL
3.1	Whereas at its June 28, 2023 meeting the Commission approved the Solutions for Congested Corridors Program and included in this program of projects the Build North Coast Corridor Batquitos in San Diego County, the parties are entering into this Project Baseline Agreement to document the project cost, schedule, scope and benefits, as detailed on the Project Programming Request Form attached hereto as <i>Exhibit A</i> , the Project Report attached hereto as <i>Exhibit B</i> , the Performance Metrics Form, if applicable, attached hereto as <i>Exhibit C</i> , as the baseline for project monitoring by the Commission.
3.2	The undersigned Project Applicant certifies that the funding sources cited are committed and expected to be available; the estimated costs represent full project funding; and the scope and description of benefits is the best estimate possible.
4.	GENERAL PROVISIONS
	The Project Applicant, Implementing Agency, and Caltrans agree to abide by the following provisions:
4.1	To meet the requirements of the Road Repair and Accountability Act of 2017 (Senate Bill [SB] 1, Chapter 5, Statutes of 2017) which provides the first significant, stable, and on-going increase in state transportation funding in more than two decades.
4.2	To adhere, as applicable, to the provisions of the Commission:
	Resolution, "Adoption of Program of Projects for the Active Transportation Program", dated
	Resolution, "Adoption of Program of Projects for the Local Partnership Program", dated
	Resolution G-23-45, "Adoption of Program of Projects for the Solutions for Congested Corridors Program", dated 6/28/2023
	Resolution, "Adoption of Program of Projects for the State Highway Operation and Protection Program", dated
	Resolution, "Adoption of Program of Projects for the Trade Corridor Enhancement Program", dated

Project Baseline Agreement Page 1 of 3

- 4.3 All signatories agree to adhere to the Commission's Guidelines. Any conflict between the programs will be resolved at the discretion of the Commission.
- 4.4 All signatories agree to adhere to the Commission's SB 1 Accountability and Transparency Guidelines and policies, and program and project amendment processes.
- 4.5 San Diego Association of Governments agrees to secure funds for any additional costs of the project.
- 4.6 San Diego Association of Governments agrees to report to Caltrans on a quarterly basis; on the progress made toward the implementation of the project, including scope, cost, schedule, and anticipated benefits/performance metric outcomes.
- 4.7 Caltrans agrees to prepare program progress reports on a on a semi-annual basis and include information appropriate to assess the current state of the overall program and the current status of each project identified in the program report.
- 4.8 San Diego Association of Governments agrees to submit a timely Completion Report and Final Delivery Report as specified in the Commission's SB 1 Accountability and Transparency Guidelines.
- 4.9 San Diego Association of Governments agrees to submit a timely Project Performance Analysis as specified in the Commission's SB 1 Accountability and Transparency Guidelines.
- 4.10 All signatories agree to maintain and make available to the Commission and/or its designated representative, all work related documents, including without limitation engineering, financial and other data, and methodologies and assumptions used in the determination of project benefits and performance metric outcomes during the course of the project, and retain those records for six years from the date of the final closeout of the project. Financial records will be maintained in accordance with Generally Accepted Accounting Principles.
- 4.11 The Inspector General of the Independent Office of Audits and Investigations has the right to audit the project records, including technical and financial data, of the Department of Transportation, the Project Applicant, the Implementing Agency, and any consultant or sub-consultants at any time during the course of the project and for six years from the date of the final closeout of the project, therefore all project records shall be maintained and made available at the time of request. Audits will be conducted in accordance with Generally Accepted Government Auditing Standards.

5. SPECIFIC PROVISIONS AND CONDITIONS

5.1 Project Schedule and Cost

See Project Programming Request Form, attached as Exhibit A.

5.2 Project Scope

See Project Report or equivalent, attached as <u>Exhibit B</u>. At a minimum, the attachment shall include the cover page, evidence of approval, executive summary, and a link to or electronic copy of the full document.

5.3 Performance Metrics

See Performance Metrics Form, if applicable, attached as Exhibit C.

- 5.4 Additional Provisions and Conditions (Please attach an additional page if additional space is needed.)
 - A) SANDAG will be the lead agency in the development of the project. The project will be constructed through the Caltrans North County Corridor Construction Manager/ General Contractor (CMGC) Contract through a Project Implementation Order with Caltrans.
 - B) The project will be constructed in accordance with the "Memorandum of Understanding Between the San Diego Association of Governments, The North San Diego County Transit Development Board, and the Metropolitan Transit Development Board Defining the Functions and Responsibilities of the Three Agencies" Addendum 18 with the Owner/Operator of the railroad, North County Transit District (NCTD).
 - C) The State will not cover costs in the event of a cost overrun. In the event of cost overrun SANDAG will be responsible for providing additional funding. Local TransNet funding has been identified to cover cost overruns.

Attachments:

Exhibit A: Project Programming Request Form

Exhibit B: Project Report

Exhibit C: Performance Metrics Form (if applicable)

SIGNATURE PAGE TO PROJECT BASELINE AGREEMENT

Project Name Build North Coast Corridor Batiquitos in San Diego County

Resolution SCCP-P-2324-03B

(to be completed by CTC)

Hasanl	kh	ra	ta
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Sep 20, 2023

Date

Hasan Ikhrata

Executive Director, San Diego Association of Governments

Project Applicant

Hasan Ikhrata

Sep 20, 2023

Date

Hasan Ikhrata

Executive Director, San Diego Association of Governments

Implementing Agency

Gustavo Dallarda

10/13/2023

Date

Gustavo Dallarda

District Director

California Department of Transportation

Michael Keever (Dc 1, 2023 17:50 PST)

12/01/2023

Date

Tony Tavares

Director

California Department of Transportation

Tarty

12/21/23

Date

Tanisha Taylor

Executive Director

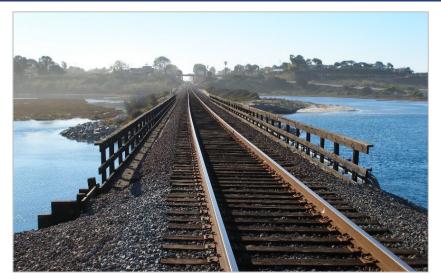
California Transportation Commission

Signature: Hosas Wehall

Email: hik@sandag.org

Build NCC Batiquitos

Fiscal Year 2022 Solutions for Congested Corridors Program



Project Description

Build NCC Batiquitos implements critical rail infrastructure improvements as a component of a multimodal approach to congestion relief within the Interstate 5 North Coast Corridor (NCC) in San Diego County. The project replaces a single track wooden trestle bridge, built in the 1940s, with a modern, double track concrete rail bridge and adds 0.6 miles of double track across the Batiquitos Lagoon between the cities of Carlsbad and Encinitas.

Benefits

Enhancements to rail infrastructure is a key component of improving all travel modes within NCC to reduce congestion and greenhouse gas emissions. The Project eliminates a significant bottleneck, resulting in 5.5 miles of continuous double track within the corridor. This improvement will make travel by rail more reliable and more attractive as an

Project Manager

Tim DeWitt, Senior Engineer Phone: (619) 699-1935

Email: Tim.DeWitt@sandag.org

Schedule

Construction is scheduled for 2024-2026.

Total Project Cost: \$117.8 million **Total Grant Request:** \$103.3 million

Project Map



Project Webpage

http://keepsandiegomoving.com/BLDT

alternative to driving a car and will result in a reduction of over 411 million vehicle miles traveled, 166,000 tons of carbon dioxide, and 1.9 million hours in travel time over a 20-year period. SANDAG is working to promote transportation equity by improving the safety, reliability, and affordability of transit for the benefit of all communities. Double tracking helps rail operators meet current train volumes and facilitate increases in passenger and freight service in the future. This Project specifically provides a double track area for trains to pass so that passenger rail trains will no longer get stuck behind slow-moving freight trains.

In addition to improving rail operations and promoting transportation equity, the Project ensures a critical transportation asset remains in a state of good repair. The existing bridge is nearing the end of its useful service life and replacing the wooden trestle rail bridge with a concrete bridge will protect against the impacts of climate change and reduce risk of a rail closure that would cost the region approximately \$300 million in lost revenue. Replacing the wooden trestle rail bridge will improve overall lagoon health by providing a wider channel underneath the bridge, increasing tidal flushing; and the Project's design avoids or minimizes impacts to Batiquitos Lagoon and limits interference with rail service during its construction.



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PROJECT REPORT EQUIVALENT

Project Title Build North Coast Corridor Batiquitos in San Diego County

Project Location Description The proposed project is located between MP 234.5 and MP 235.1 on the San Diego Subdivision of the Los Angeles-San Diego-San Luis Obispo (LOSSAN) Corridor. The north segment of the project between MP 234.5 and the Batiquitos Lagoon (MP 234.8) is located in the City of Carlsbad. The remainder of the project (south of Batiquitos Lagoon) MP 234.8 to MP 235.1 is located in the City of Encinitas. The Avenida Encinas overpass and the Batiquitos Lagoon Bridge fall within the project limits.



Vicinity Map



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I, <u>J. Blake Loftus, Deputy Project Manager – RailPros</u> have be authority by <u>San Diego Association of Governments (SANDAG)</u> report. I certify that the information and data contained in this report best of my knowledge and belief and I understand that disciplinary taken in the event that the following information are found to be for	to prepare this ort are true to the action may be
J Blake Loftus	9/20/23
J. Blake Loftus	Date
<u>Deputy Project Manager</u> Title	
<u>RailPros</u>	
Agency/Company	
I have reviewed the information contained in this report and find the information to be complete, current, and accurate	ne data and
Timothy DeWitt	9/20/2023
Tim DeWitt, Project Manager	Date
San Diego Association of Governments	
Agency	

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1. INTRODUCTION

The project involves the addition of 0.6 miles of second main track between Control Point (CP) Ponto at Mile Post (MP) 234.5 near the Avenida Encinas overpass and a new Control Point CP La Costa at MP 235.1 just north of the La Costa Avenue overpass. The project also involves the replacement of the existing 300-foot long, single-track Batiquitos Lagoon bridge (BR 234.8, shown below) with a modern, double-track concrete bridge. The existing wood trestle bridge was built in 1942 and is inadequate for scour depth as described in the "Project Purpose and Need" section.

Other associated improvements include expanding and armoring the existing Least Tern nesting site in the southwestern corner of the lagoon, removing the old and unnatural rock revetment underneath the existing bridge, performing grading, drainage, and signal improvements, and performing additional grading, temporary access, and fencing improvements about 1/4 of a mile north of the new second main track extension resulting in a total project area length of 1 mile.

Project Limit/Footprint	District 11-San Diego County-LOSSAN/I-5 Corridor
	Begin Rail Mile Post 234.5 / End Mile Post 235.1
	The project is located on the LOSSAN Rail Corridor, crossing the Batiquitos Lagoon. The northern portion of the project is located in the City of Carlsbad and the southern portion of the project is located in the City of Encinitas.
Total Project Cost	\$117,794,511
Outputs	0.6 Miles of New Track
Environmental Determination or Document	FTA NEPA CE
or bocomeni	Project is preempted from CEQA

2. BACKGROUND

There is currently a single track bottleneck through the southern portion of the City of Carlsbad and through the City of Encinitas. This project was originally part of the larger Ponto to Moonlight Double Track project. The project was cost prohibitive as a single project and was split out into segments. This segment includes replacement of the aging Batiquitos Lagoon wood trestle bridge and 0.6 miles of double track.

The preliminary engineering and environmental clearance for the project was funded with FTA funding and the environmental clearance was obtained in 2014. The project was advanced to the 60% design level utilizing the FTA funding and local matching funding. Over the course of the preliminary engineering it was determined that the project would be included in Caltrans's North Coast Corridor Construction Manager / General Contractor (CMGC) program. The CMGC contractor reviewed and had input on the preliminary design of the project and provided value engineering and suggestion to make the project more constructable to the design consultant.

The PS&E funding for the project was provided by the Senate Bill 1 (SB1) Local Partnership Program in 2018. The input from the CMGC contractor was incorporated into the final design and the design was completed in February 2022.

Construction funding was approved for the project through the Solutions for Congested Corridors Program, which was announced in Spring 2023. Negotiations with the CMGC contractor have recommenced and construction is anticipated to begin in Mid-2024.

3. PURPOSE AND NEED

Purpose:

The primary purpose of the project is to eliminate a single track bottleneck between the existing CP Ponto at MP 234.5 and the proposed new control point CP La Costa at MP 235.1 to be located just north of the single track underpass at La Costa.

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In addition to providing a second main track the project will also replace the aging wood trestle bridge across the Batiquitos Lagoon with a new modern concrete bridge.

Need:

A. Single Track Bottleneck

Constructing this 0.6-mile long second main track to extend the existing double-track north of the project area will increase rail capacity and reliability on the Los Angeles-San Diego-San Luis Obispo (LOSSAN) Corridor.

The Project is necessary to support current and future growth in LOSSAN Corridor rail service demand while maintaining safety. Without increasing the amount of double track on the LOSSAN corridor, increases in train service will not be possible without degrading overall service reliability.

The existing single track within the project limits negatively affects reliability in the corridor. This portion of the corridor requires trains to wait outside of the single track segment between CP Ponto (MP 234.5) and CP Swami (MP 238.0), in order to take turns using the single track during train meets and passing movements. This reduces the overall capacity of the system, results in increased travel time, reduces operational flexibility, and results in delays to other trains if a train is late.

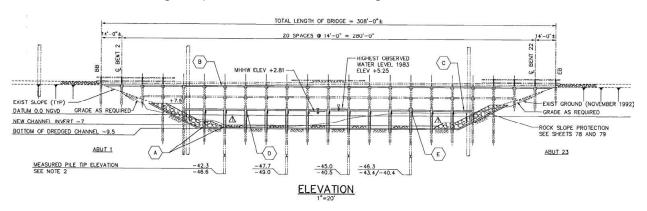
By adding a second track, the project would eliminate a 0.6-mile segment of the existing 3.5-mile single track bottleneck. This will allow additional flexibility in scheduling train meets and passes and reduce the occurrence and resulting delay time of conflicts at the location.



B. Replace Aging Bridge

In addition to providing a second main track the project will also replace the aging wood trestle bridge across the Batiquitos Lagoon with a new modern concrete bridge. The existing trestle bridge pile tips are within 20 ft of the scour depth, and with the age of the bridge, could be at risk of washout during a 100 year flood event. The depth of the new bridge piles, based on the 100% design, are a minimum of 90 feet below the current scour depth. See the attached hydraulic analysis for more information on the calculated scour depth. If the bridge were to washout during a flood then it would have wide reaching impacts on the regional economy. As the only viable rail line to the ports of San Diego and the second busiest passenger rail line in the country there would be far reaching effects if the rail line was taken out of service due to a bridge failure. It is currently estimated that a one year shut down to rebuild a portion of the rail line would cost the region approximately \$300 million in lost revenue.

The February 2020 Bridge inspection report notes that ongoing maintenance is required. The recommended immediate action includes installing pile shims, outrigger replacement, and banding installation at piles. The inspection report further notes that Bent 12 Pile #2 is rotten, and that existing piles at Bents 7, 8, and 9 are pumping under train traffic and should be monitored moving forward. This deterioration and the associated ongoing maintenance would be addressed through replacement of the bridge.



C. Regional and System Planning

It is an objective for SANDAG, NCTD, Amtrak, and BNSF to increase the efficiency of this rail corridor not only to accommodate existing train volumes, but also to provide for future demand for rail services on the corridor. Double tracking this segment directly supports this goal. Without increasing the amount of double track on the corridor, increases in either passenger and/or freight train service will not be possible without a degradation in overall service reliability.

The proposed project is consistent with key regional and corridor plans including SANDAG's Regional Transportation Plan (2021), SANDAG's San Diego Forward: The Regional Plan (2015), the LOSSAN Program Environmental Impact Report / Environmental Impact Statement by Caltrans and the Federal Railroad Administration (Record of Decision, 2009), and the Infrastructure Development Plan (IDP) for the LOSSAN Corridor in San Diego County (2018). The project also is a part of coastal rail double track improvements identified in the TransNet Early Action Program (EAP), San Diego's half-cent sales tax program for local transportation projects.

The Infrastructure Development Plan for the LOSSAN Rail Corridor in San Diego County (IDP) (2018) advises that this project must be completed in the midterm to meet future planned service levels. Mid-term service expansion, which

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equates roughly to year 2025. Other project benefits include improving operational flexibility, achieving a consistent peak period service headway, and reducing potential freight delays by adding capacity mid-corridor.

D. Traffic

This project, in conjunction with other corridor capital improvements, will provide the infrastructure for operators to increase train service and reduce headways between trains. Reduced headways will make train service more appealing to the public and increase ridership.

This project will increase use of transit and remove associated passenger vehicles and truck traffic, thereby reducing congestion and the number of vehicular accidents along the I-5 corridor.

4. ENVIRONMENTAL CLEARANCE DESCRIPTION

The project is one of several rail improvements in San Diego County that was covered under a Federal Transit Administration (FTA) National Environmental Policy Act (NEPA) Categorical Exclusion (CE) that was approved in July 2014. The Interstate Commerce Commission Termination Act ("ICCTA"), 49 U.S. Section 10101 et seq., preempts the Proposed Project from the CEQA.

5. CONSIDERATIONS REQUIRING DISCUSSION

5A. Hazardous Waste

The EDR study identified no sites within 0.25 mile of the study area that were identified as having open release cases. Based on the review of the EDR study, it does not appear that the environmental conditions of the subject property have been impacted. Due to the long history of the railway in this area, there is a potential for accumulation of herbicides and metals in the shallow soil along the railway.

5B. Value Analysis

A Benefit to Cost Analysis was performed as part of the Solutions for Congested Corridors Grant application, submitted to Caltrans in 2022. It was determined that the project has a Benefit to Cost Ration of 2.3.

Additionally, as part of the design process the CMGC contractor on the project

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has provided value engineering and constructability input on the 30% and 60% project submittals in order to reduce cost on the project. These suggestions were incorporated into the final design.

5C. Resource Conservation

It is planned to place beach sand quality soil from excavations and grading on the project onto the adjacent beach to replenish the beach sand that has been lost to natural erosion.

5D. Right-of-Way Issues

The State Lands Lease required to construct the project was approved in April 2020. A Right of Entry Permit will be required from California Department of Fish and Wildlife prior to construction. No issues are anticipated obtaining the permit. There are no other ROW concerns on the project.

5E. Environmental Compliance

The project was included in a Categorical Exclusion that was approved by the FTA in July 2014. The project is preempted from CEQA.

5F. Air Quality Conformity

Air Quality impacts were analyzed as part of the Benefits to Cost Analysis on the project. It is anticipated that the project will have a positive impact on Air Quality and Greenhouse Gas emissions by promoting and increasing train ridership and thereby removing single cars from adjacent highways. It is estimated that the project will reduce daily VMT by over 56,000 over the first twenty years of service and eliminate 8,000 tons of Carbon dioxide and 9 tons of carbon monoxide annually.

The replacement of the aging bridge will also eliminate the potential for freight diversion to trucks on the highway if the bridge had to be shut down to freight trains.

5G. Title VI Considerations

A Social Equity Engagement and Analysis was conducted as part of the development of SANDAG's 2021 Regional Plan. Expanding the regional transportation system aligns with SANDAG's goal of improving equity. The additional passenger rail service that will result from this project is anticipated to be a positive benefit to disadvantaged and low-income communities. Furthermore construction of this project will be subject to all Title VI requirements.

5H. Noise Abatement Decision Report

Noise impacts from the project are not anticipated. Noise analysis was done on the existing wood trestle bridge versus the noise produced by concrete bridges on the corridor. It is anticipated that the new proposed concrete bridge will produce less noise when trains pass than the existing condition.

6. FUNDING, PROGRAMMING AND ESTIMATE

Funding

The PA&ED for the project was funded with a combination FTA federal funding and local TransNet funds. The PS&E for the project was fully funded with a combination of SB1 Local Partnership Program funding and local TransNet funding. Construction has been fully funded through the State Solutions for Congested Corridors program.

The project is eligible for Federal Aid funding but the project is fully funded and it is not anticipated that additional Federal funding will be needed.

Programming

The funding listed below is all committed and programmed. The project is fully funded for construction. Construction cost needs were escalated to the year of expenditure as shown in the estimate section below.

Fund Source				Fiscal Y	ear Esti	imate					
Total	Prior	23/24	24/25	25/26	26/27	27/28	28/29	Future	Total		
Component		In thousands of dollars (\$1,000)									
PA&ED Support	7,088								7,088		
PS&E Support	4,772								4,772		
Right-of-Way											
Support											
Construction											
Support											
Right-of-Way											
Construction		105,940							105,940		
Total	11,860	105,940							117,800		

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Fund Source				Fiscal	Year Es	timate			
Local Funds TransNet	Prior	23/24	24/25	25/26	26/27	27/28	28/29	Future	Total
Component			In th	ousand	s of dol	llars (\$1,	000)		
PA&ED Support	2,863								2,863
PS&E Support	2,747								2,747
Right-of-Way Support									
Construction Support									
Right-of-Way									
Construction		2,640							2,640
Total	5,610	2,640							8,250

Fund Source				Fiscal	Year Es	timate			
FTA 5307	Prior	23/24	24/25	25/26	26/27	27/28	28/29	Future	Total
Component			In th	ousand	s of do	llars (\$1,	000)		
PA&ED	4,225								4,225
Support	4,223								4,225
PS&E	775								775
Support	//3								773
Right-of-Way									
Support									
Construction									
Support									
Right-of-Way									
Construction									
Total	5,000								5,000

Fund Source				Fiscal	Year Es	timate				
SB1 LPP	Prior	23/24	24/25	25/26	26/27	27/28	28/29	Future	Total	
Component		In thousands of dollars (\$1,000)								
PA&ED										
Support										
PS&E	1,250								1,250	
Support	1,230								1,230	
Right-of-Way										
Support										
Construction										
Support										
Right-of-Way										
Construction										
Total	1,250								1,250	

Fund Source				Fiscal	Year Es	timate			
SB1 SCCP	Prior	23/24	24/25	25/26	26/27	27/28	28/29	Future	Total
Component			In th	ousand	s of dol	llars (\$1,	000)		
PA&ED									
Support									
PS&E									
Support									
Right-of-Way									
Support									
Construction									
Support									
Right-of-Way									
Construction		103,300							103,300
Total		103,300							103,300

Estimate

The project estimate is provided below. The project estimate is based on actual costs for environmental clearance and design. The Construction Cost is based on the Design Consultant's 100% Engineers Estimate. Soft Costs for the construction phase are based on typical percentages of the construction cost, based on similar projects constructed by SANDAG on the LOSSAN Corridor. The Construction Costs and expenditures are escalated to the anticipated year of expenditure based on the rates predicted by the SANDAG economics team.

PROJECT COST ESTIMATE			Design Level:		100%		
Revised: 11/21/22			Estimated By:	TD	, DB, BL		
ltem	Quantity	Unit	Unit		Amount		Subtotal
Rem	(Actuals)	Oilit	Price		(Actuals)	L `	Jubiolai
DESIGN							
Agency Design Admin-SANDAG	2.84%	Х	CCE	\$	1,736,200		
Agency Program Mgmt-SANDAG	0.93%	X	CCE	\$	567,997		
Agency Design Admin-NCTD	0.19%	X	CCE	\$	117,800		
Design-Alternatives Analysis and Environmental	2.10%	X	CCE	\$	1,281,921		
Design-Preliminary to 30% Design-30% to 90%	2.69%	X	CCE	\$	1,643,075		
	6.12%	Х	CCE	\$	3,736,072		
Design-90% to Final PS&E, Bid Support	3.46%	Х	CCE	\$	2,109,709		
Independent Peer Reviews	1.09%	Х	CCE	\$	666,996	-	044.050.5
Total	19.43%				DESIGN TOTAL		\$11,859,7
RIGHT OF WAY							
ROW Support	1		\$43,000		43,000		
ROW Capital	1	LS	\$48,000		48,000	<u> </u>	
	1		RIG	нт	OF WAY TOTAL		\$91,0
CONSTRUCTION CONTRACT ESTIMATE							
(from 100% Design Est. HNTB 2/2/22)						i	
Track	1	LS	\$3,956,843	\$	3,956,843		
Polution Control and SWPPP	1	LS	\$1,601,387	\$	1,601,387		
Site Civil	1		\$6,275,867	\$	6,275,867		
Site Civil - Inlet and Bridge RSP	1		\$15,792,673	\$	15,792,673		
Permanent Revegetation	1		\$379,181	\$	379,181		
Drainage	1		\$634,784		634,784		
Bridge 234.8	1		\$9,497,989	\$	9,497,989		
Br. 324.5 Overhead Pier Protection	1		\$178,883	\$	178,883		
Retaining Walls	1		\$2,110,288	\$	2,110,288	-	
Signals & Communications	1	LS	\$3,009,705	\$	3,009,705	_	
Nesting Site Restoration	1		\$851,386	\$	851,386		
Nesting one Nestoration		LO			n Estimate (BCE)		\$44,288,9
General General		1	Dase Constitu	JUIOI	ii Estilliate (DCE)		ψ44,200,0
Contractor Mobilization	10.0%	Х	BCE	\$	4,428,899		
					2,347,316		
Bonds and Insurance	5.3%		BCE	\$			
Time Related Overhead (Per Caltrans Contract)	10.0%		BCE	\$	4,428,899	-	
Construction Contingency	12.5%		BCE	\$	5,536,123	-	004 000 0
	U	ONSTR	UCTION CONTRA	ا از	ESTIMATE (CCE)		\$61,030,2
ANCILLARY CONSTRUCTION COSTS							
Design Support During Construction	4.00%	X	CCE	\$	2,441,200		
Construction Management	15.00%	х	CCE	\$	9,154,500	L_	
Agency Construction Admin. (SANDAG)	3.50%	Х	CCE	\$	2,136,000		
Agency Construction Program Mangament	0.50%	х	CCE	\$	305,100		
Legal Services	0.25%	Х	CCE	\$	152,500		
Communications	0.25%	Х	CCE	\$	152,500		
NCTD Admin, Signal & PTC Support	1.00%	х	CCE	\$	610,300		
Flagging Services (NCTD)	4.00%	х	CCE	\$	2,441,200		
Pre Construction Sevices (Caltrans)	1	LS	\$656,000	\$	656,000		
Ancillary Cost Contingency	3%	%	CCE	\$	1,830,907		
Total	28.5%		ANCILLARY CON	STR	RUCTION COSTS		\$19,880,2
OFF-SITE ENVIRONMENTAL MITIGATION							
			04 450 000	^	000.07	_	
Tidal Wetlands Permanent Impact Mitigation		Acre	\$1,150,938		299,244	⊢	
Tidal Wetlands Temporary Impact Mitigation		Acre	\$780,241	\$	187,258	⊢	
Other Wetlands Permanent Impact Mitigation	1.92	Acre	\$407,053	\$	781,542	L	
Other Wetlands Temporary Impact Mitigation		Acre	\$345,272	\$	952,951	L	
Uplands Permanent Impact Mitigation	3.85		\$262,415	\$	1,010,298		
Uplands Temporary Impact Mitigation	0.26	Acre	\$188,278	\$	48,952		
Other		Acre		\$	-		
Subtotal				Ė			\$3,280,2
Project Contingency							
Contingency	10.0%	%	CCE	\$	6,103,022	\vdash	
	10.070	, ,,,			ect Contingency		\$6,103,0
				٠٠,٠		_	,,
TOTAL PROJECT COST ESTIMATE (FY	22 Dollars					\$	102,244,4
	570			_		Ť	
COST ESCALATION				_		_	
COOT ESCALATION					- "		
Year of Expenditure	Annual '	%	Cumulative		Expenditures	ı	TOTAL
•			Escalation		(Actuals)	_	Escalation
Previous Years			0.0%	\$	11,341,172	\$	
FY22 - Final Design (1/2 Year Escalation)	7.9%		7.9%	\$	609,598	\$	48,1
FY23 - Permit & Bidding	4.4%		12.3%	\$	-	\$,.
FY24 - 50% Construction	2.9%		15.2%	\$	39,156,053	\$	5,947,8
FY25 - 100% Construction	2.8%		18.0%	\$	39,156,053	\$	7,055,9
				\$	11,981,589	\$	2,498,1
	2 20/						
FY26 - Complete Construction	2.8% Project Estir	note ··	20.9%				2, 100,
FY26 - Complete Construction			ithout Escalation		\$102,244,466		
FY26 - Complete Construction	Project Estir	Estir	rithout Escalation mated Escalation			\$	15,550,0 1 17,794,5

7. DELIVERY SCHEDULE

Project Milestones	Milestone Date (Month/Day/Year)	Milestone Designation (Target/Actual)
Project Study Report Approved	10/01/2013	Actual
Begin Environmental (PA&ED) Phase	10/01/2013	Actual
Circulate Draft Environmental Document – Document Type (ND/MND)/FONSI	04/01/2014	Actual
Draft Project Report	07/01/2014	Actual
End Environmental Phase (PA&ED Milestone)	07/01/2014	Actual
Begin Design (PS&E) Phase	05/01/2015	Actual
End Design Phase (Ready to List for Advertisement Milestone)	12/31/2023	Target
Begin Right of Way Phase	05/01/2015	Actual
End Right of Way Phase (Right of Way Certification Milestone)	12/31/2023	Target
Begin Construction Phase (Contract Award Milestone)	08/01/2024	Target
End Construction Phase (Construction Contract Acceptance Milestone)	08/01/2027	Target
Begin Closeout Phase	08/02/2027	Target
End Closeout Phase (Closeout Report)	02/01/2028	Target

8. RISKS

Major Risks with their proposed mitigation are shown below:

Major Risk	Mitigation
The Agreed to Price (ATP) that is negotiated with the contractor may exceed the project budget.	The project estimate and budget include contingency in the event that the ATP exceeds the initial construction estimate.
Least Tern Nesting Season may have an adverse effect on the construction schedule as the resource agencies are not allowing certain work activities during nesting season.	The nesting season limitations are going to be placed into the project specifications and the contractor will work with the Construction Management team to build a scheduled that optimizes work that can be permitted during certain seasons.
There is a potential need for earthwork treatment at the bridge foundations.	Additional earthwork treatment has been included as an additional bid quantity within the specifications.
Flagging costs may exceed the initial estimate.	Contingency has been included in the project budget to address potential overruns for flagging costs.
There are risks associated with construction in a lagoon environment, including storm damage to temporary work bridges and berms.	The responsibility for the risk associated with storm damage is transferred to the contractor in the specifications.

9. EXTERNAL AGENCY COORDINATION

The project requires the following coordination:

<u>Federal Transit Administration</u>
Lead Agency on NEPA CE documentation - **Approved**

<u>US Army Corps of Engineers</u> Clean Water Act Section 404 Permit – **Approved** State Lands Lease - **Approved** District 11 – San Diego County – LOSSAN/I-5 Corridor - MP 234.5 / MP 235.1 EA563GA – PPNO SC001 Solutions for Congested Corridors September / 2023

US Fish and Wildlife Service

Endangered Species Act Section 7 Consultation Biological Opinion-Approved

State Historic Preservation Office

Section 106 State Historic Preservation Act Consultation - Approved

California Coastal Commission

Federal Coastal Consistency Certification - Approved

<u>California Public Utilities Commission</u>

GO 88-B Modification of an Existing Rail Crossing - Approved

Regional Water Quality Control Board

Clean Water Act Section 401 Permit - Approved

California Department of Fish and Wildlife

Right of Entry Permit – In Progress

Local Agency

MOU 18 Agreement with NCTD - Approved

10. ADDITIONAL INFORMATION

The project is being included in the Caltrans CMGC Contract with Flatiron, Skanska, Stacey and Witbeck (FSSW). FSSW is currently under contract and performing construction on the North Coast Corridor program with Caltrans. The program includes highway, rail, and trail improvements in the I-5 corridor of San Diego County. The CMGC contract will be administered by Caltrans and the day to day construction management will be performed by SANDAG. Negotiations have commenced to reach an Agreed to Price (ATP) for this segment of work.

11. ATTACHMENTS

- A. Project Programming Request PPR (8 pages)
- B. Project Location Map (1 page)
- C. Engineers Estimate (5 pages)

PRG-0010 (REV 08/2020)

PPR ID ePPR-6066-2020-0039 v0

Amendment (Existin	ng Project) 🗌 YES	⊠ NO			Date 10/06/2023 11:43:40
Programs L	.PP-C LPP-	F SCCP	TCEP S	ΠΡ 🛛 Other	•
District	EA	Project ID	PPNO	Nominatir	ng Agency
75	R563GA		SC001	San Diego Associat	ion of Governments
County	Route	PM Back	PM Ahead	Co-Nomina	ting Agency
San Diego County				North San Diego Co	ounty Transit District
				MPO	Element
				SANDAG	Rail
Pr	oject Manager/Cont	act	Phone	Email <i>F</i>	Address
	Tim DeWitt		619-699-1935	tim.dewitt@	sandag.org
Project Title					

Build North Coast Corridor (NCC) Batiquitos

Location (Project Limits), Description (Scope of Work)

The project is located in the Cities of Carlsbad and Encinitas, on the Los Angeles - San Diego - San Luis Obispo (LOSSAN) Rail Corridor between mileposts 234.5 and 235.1. The project scope includes the following:

- Construction of 0.6 miles of new second main track
- Modification of the railroad system by removing Control Point (CP) Ponto at MP 234.5 and installing a new CP La Costa at MP 235.1
- Re-alignment and construction of a new concrete double track bridge through the waterway entrance to the Batiquitos Lagoon
- Construction of drainage and culvert improvements through the existing trench north of the lagoon
- Expansion and improvement of the existing Least Tern site on the southwestern corner of the lagoon
- Relocation of utilities and construction of various other ancillary civil and track improvements.

Component			Implementing	g Agency	
PA&ED	San Diego A	ssociation of Government	s		
PS&E	San Diego A	ssociation of Government	S		
Right of Way	San Diego A	ssociation of Government	S		
Construction	San Diego A	ssociation of Government	s		
Legislative Districts					
Assembly:	77	Senate:	38	Congressional:	49
Project Milestone				Existing	Proposed
Project Study Report App	oroved			10/01/2013	
Begin Environmental (PA	A&ED) Phase				10/01/2013
Circulate Draft Environm	ental Documer	nt Document Type	CE		04/01/2014
Draft Project Report					07/01/2014
End Environmental Phas	e (PA&ED Mile	estone)			07/01/2014
Begin Design (PS&E) Ph	iase				05/01/2015
End Design Phase (Read	dy to List for A	dvertisement Milestone)			12/31/2023
Begin Right of Way Phas	se				05/01/2015
End Right of Way Phase	(Right of Way	Certification Milestone)			12/31/2023
Begin Construction Phas	e (Contract Av	vard Milestone)			08/01/2024
End Construction Phase	(Construction	Contract Acceptance Mile	stone)		08/01/2027
Begin Closeout Phase					08/02/2027
End Closeout Phase (Clo	oseout Report)				02/01/2028

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

PROJECT PROGRAMMING REQUEST (PPR)

PRG-0010 (REV 08/2020)

PPR ID ePPR-6066-2020-0039 v0

Date 10/06/2023 11:43:40

Purpose and Need

The segment of Interstate-5 (I-5) in the North Coast Corridor (NCC) of San Diego County serves as a major transportation corridor, facilitating interregional goods movement and connecting people to socioeconomic opportunities and coastal resources. The 27-mile-long stretch of interstate is in the Coastal Zone and passes through 6 coastal cities – Oceanside, Carlsbad, Encinitas, Solana Beach, Del Mar, and San Diego, which is home to 1.8 million people and 1.1 million jobs. Jobs, coastal resources, regional attractions, and freight network in the NCC generate a variety of transportation needs that put a significant strain on the corridor. In 2010, the NCC accommodated over 1.4 million daily vehicle trips just on I-5 (or approximately 13% of the 11.5 million daily vehicle trips that occurred within San Diego County). By 2040, I-5 in the NCC is projected to accommodate nearly 1.8 million daily vehicle trips (an increase of more than 26% over existing conditions).

Existing transportation facilities focus primarily on moving cars, not people; and highway demand currently exceeds capacity. This has resulted in considerable congestion, increased travel times, decreased reliability and limited travel choices, particularly for commute trips during peak periods and recreational trips on weekends. As San Diego and California continue to grow, these problems will get worse, affecting the region's quality of life and inhibiting coastal access and economic growth in the San Diego region and beyond.

To focus on managing demand, SANDAG and the California Department of Transportation (Caltrans) developed the NCC Program, a comprehensive set of transportation strategies to provide travelers choices for the future while enhancing environmental health and quality of life for residents. The NCC Program, known colloquially as Build NCC, is comprised of three primary focus areas – the I-5 Express Lanes Project, coastal rail and transit enhancements, and environmental protection and coastal access improvements (Figure 1). To date, SANDAG and Caltrans have constructed 9 miles of new managed lanes, 1.5 miles of new rail double track, and 7 miles of new bike and pedestrian paths in the corridor. Yet more work needs to be done to substantially reduce I-5 congestion, encourage mode shift, and address regional and state climate action goals. Build NCC Batiquitos (the Project) will implement vital rail improvements included in Build NCC to further reduce congestion in the heavily traveled I-5 corridor.

The Project will eliminate a single track bottleneck between CP Ponto and the proposed new control point CP La Costa to be located just south of Batiquitos Lagoon. The existing single track segment negatively affects reliability in the corridor since trains have to take turns using the single track during train meets and passing movements. The Project will eliminate .6 miles of the existing 3.5 mile single track bottleneck which will allow additional flexibility in scheduling train meets and passes while also reducing the occurrence and resulting delay time of conflicts at the location. This project is part of the overall Interstate 5 North Coast Corridor project utilizing the Construction Manager/General Contractor (CM/GC) method of procurement in partnership with Caltrans.

This project increases capacity by additional operational flexibility and reliability that increased freight and passenger rail set	can tran	slate to reduced travel	times and improved on-time	performance	of trains; and allows for
NHS Improvements		Roadway Class NA		Reversib l e Lar	ne Analysis 🗌 YES 🔀 NO
Inc. Sustainable Communities Strategy	Goals	∑ YES ☐ NO	Reduce Greenhouse Gas	Emissions X	YES NO
Project Outputs					
Category		Outp	uts	Unit	Total
Rail/ Multi-Modal	Miles of	new track		Miles	0.6

STATE OF CALIFORNIA • DEPARTMENT OF TRANSPORTATION

PROJECT PROGRAMMING REQUEST (PPR)

PRG-0010 (REV 08/2020)

PPR ID ePPR-6066-2020-0039 v0

Date 10/06/2023 11:43:40

Additional Information

Project Benefits

Specific benefits of the Project include:

- Reducing vehicle miles traveled (VMT) of more than 411 million over 20 years
- Saving an estimated 1.9 million person hours of travel time saved over 20 years

A savings of nearly 166,000 tons of carbon dioxide over the next 20 years

- A Cost/Benefit Ratio of 2.3
- Adding 1,480 jobs to the regional economy
- Increasing capacity by eliminating 0.6 miles of a 3.5-mile bottleneck of single-track capacity
- Providing the only mid-corridor location in San Diego County for passenger trains to bypass slower freight trains to improve travel time delays and schedule reliability
- · Reducing train wait times and delays of 4,284 minutes per year
- Improving operational reliability and flexibility by allowing for consistent peak period Pacific Surfliner and COASTER service (20-minute headways throughout the day), which will provide another alternative to driving the parallel I-5
- Enabling five freight slots per day in each direction during passenger off peak hours
- · Additional service made possible by implementing the Project will serve as mitigation for planned future I-5 construction
- Completing an additional rail network segment as called for in the 2018 California State Rail Plan
- Replacing of an old wooden trestle bridge built in the 1930s which is nearing the end of its useful life
- Reducing recurring rail maintenance costs by \$11,000 annually
- · Improving lagoon health by expanding the mouth of the lagoon under the new bridge thus providing a significant increase to tidal flushing

The project schedule has changed from the original PPR submitted with the application. The reason for the changes is as follows. The contract award milestone was extended several months from the initial application based on updated schedules from the CMGC team and Caltrans staff regarding ICE and CGMC estimating team availability and the timeframe to execute Task Orders and agreements. The ROW milestone was also extended based on feedback from DRMT regarding requirements for the ROW Cert.

PRG-0010 (REV 08/2020)

		Performance Indic	ators and Measures	<u> </u>		
Measure	Required For	Indicator/Measure	Unit	Build	Future No Build	Change
Congestion	LPPC, SCCP,	Change in Daily Vehicle Miles	Miles	12,286,698	12,373,140	-86,442
Reduction	LPPF	Travelled	VMT per Capita	0	0	0
	LPPC, SCCP,	Person Hours of Travel Time Saved	Person Hours	98,178	0	98,178
	LPPF	(Only 'Change' required)	Hours per Capita	0	0	0
System Reliability (Freight)	LPPC, SCCP, LPPF	Peak Period Travel Time Reliability Index (Only 'No Build' Required)	Index	0	0	0
	LPPC, SCCP, LPPF	Level of Transit Delay (if required)	% "On-time"	0	0	0
Air Quality &		Particulate Matter	PM 2.5 Tons	25	0	25
GHG (only 'Change' required)	LPPC, SCCP, TCEP, LPPF	Farticulate Matter	PM 10 Tons	25	0	25
	LPPC, SCCP, TCEP, LPPF	Carbon Dioxide (CO2)	Tons	0	165,882	-165,882
	LPPC, SCCP, TCEP, LPPF	Volatile Organic Compounds (VOC)	Tons	0	7	-7
	LPPC, SCCP, TCEP, LPPF	Sulphur Dioxides (SOx)	Tons	0	2	-2
	LPPC, SCCP, TCEP, LPPF	Carbon Monoxide (CO)	Tons	0	177	-177
	LPPC, SCCP, TCEP, LPPF	Nitrogen Oxides (NOx)	Tons	399	0	399
Safety	LPPC, SCCP, TCEP, LPPF	Number of Fatalities	Number	439	441	-2
	LPPC, SCCP, TCEP, LPPF	Fatalities per 100 Million VMT	Number	0.005	0.005	0
	LPPC, SCCP, TCEP, LPPF	Number of Serious Injuries	Number	24,592	24,719	-127
	LPPC, SCCP, TCEP, LPPF	Number of Serious Injuries per 100 Million VMT	Number	0.28	0.28	0
Economic Development	LPPC, SCCP, TCEP, LPPF	Jobs Created (Only 'Build' Required)	Number	1,348	0	1,348
Cost Effectiveness (only 'Change' required)	LPPC, SCCP, TCEP, LPPF	Cost Benefit Ratio	Ratio	2.3	0	2.3
Vehicle Volume	LPPC, LPPF, SCCP	Existing Average Annual Vehicle Volume on Project Segment	Number	0	0	0
	LPPC, LPPF, SCCP	Estimated Year 20 Average Annual Vehicle Volume on Project Segment with Project	Number	0	0	0

PRG-0010 (REV 08/2020)

PPR ID ePPR-6066-2020-0039 v0

District	County	Route	EA	Project ID	PPNO
75	San Diego County		R563GA		SC001
Project Title					

Build North Coast Corridor (NCC) Batiquitos

		Exis	sting Total F	Project Cos	t (\$1,000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Implementing Agency
E&P (PA&ED)									San Diego Association of Governme
PS&E									San Diego Association of Governmer
R/W SUP (CT)									San Diego Association of Governmer
CON SUP (CT)									San Diego Association of Governmer
R/W									San Diego Association of Governmer
CON									San Diego Association of Governmer
TOTAL									
		Prop	osed Total	Project Co	st (\$1,000s)		'		Notes
E&P (PA&ED)	7,088							7,088	
PS&E	4,772							4,772	
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON					105,940			105,940	
TOTAL	11,860				105,940			117,800	
	T								
Fund #1:	Local Fund	ls - Local I							Program Code
				unding (\$1,			1 1		
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									San Diego Association of Governmen
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL									
			Proposed I	unding (\$1	,000s)				Notes
	879								FTA Match
E&P (PA&ED)					1 1		1	161	1
PS&E	161							101	
PS&E R/W SUP (CT)								101	
PS&E R/W SUP (CT) CON SUP (CT)								101	
PS&E R/W SUP (CT) CON SUP (CT) R/W								101	
PS&E R/W SUP (CT) CON SUP (CT)								1,040	

PRG-0010 (REV 08/2020)

Fund #2:	FTA Funds	s - FTA 530				mitted)			Program Code
			Existing F	unding (\$1,	000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									San Diego Association of Governmen
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL									
			Proposed F	unding (\$1	,000s)		'		Notes
E&P (PA&ED)	4,225							4,225	
PS&E	775							775	
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL	5,000							5,000	
Fund #3:	State SB1	LPP - Loc	al Partnersh	nip Program	n - Formula	distribution	n (Committe	d)	Program Code
			Existing F	unding (\$1,	000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									San Diego Association of Governmen
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL									
			Proposed F	unding (\$1	,000s)				Notes
E&P (PA&ED)									
PS&E	1,250							1,250	
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL	1,250							1,250	

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Fund #4:	Local Fund	ds - Local N	deasure (C	ommitted)					Program Code
			Existing F	unding (\$1,	000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									San Diego Association of Governmen
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL									
			Proposed F	unding (\$1	,000s)		1		Notes
E&P (PA&ED)									1:1 Local Match for LPP(F)
PS&E	1,250							1,250	
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL	1,250							1,250	
Fund #5:	Local Fund	ds - Local N	deasure (C	ommitted)					Program Code
			Existing F	unding (\$1,	000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL									
	'		Proposed F	unding (\$1	,000s)				Notes
E&P (PA&ED)	1,984							1,984	
PS&E	1,336							1,336	
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON					2,640			2,640	1
TOTAL	3,320				2,640			5,960	

PRG-0010 (REV 08/2020)

Fund #6:	State SB1	SCCP - Sc	olution for C	Congested (Corridors Pr	ogram (Co	mmitted)		Program Code
-	•		Existing F	unding (\$1,	000s)				
Component	Prior	20-21	21-22	22-23	23-24	24-25	25-26+	Total	Funding Agency
E&P (PA&ED)									
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON									
TOTAL									
	•		Proposed I	unding (\$1	,000s)		•	,	Notes
E&P (PA&ED)									
PS&E									
R/W SUP (CT)									
CON SUP (CT)									
R/W									
CON					103,300			103,300	
TOTAL					103,300			103,300	

Attachment B: Location Map



PROJECT COST ESTIMATE levised: 11/21/22			O CP La Cos Design Level: Estimated By:	100% TD, DB, BL	
I tem	Quantity (Actuals)	Unit	Unit Price	Amount <i>(Actuals)</i>	Subtotal
DESIGN					İ
Agency Design Admin-SANDAG	2.84%	×	CCE	\$ 1,736,200	
Agency Program Mgmt-SANDAG	0.93%	х	CCE	\$ 567,997	
Agency Design Admin-NCTD	0.19%	×	CCE	\$ 117,800	
Design-Alternatives Analysis and Environmental	2.10%	×	CCE	\$ 1,281,921	
Design-Preliminary to 30%	2.69%	х	CCE	\$ 1,643,075	
Design-30% to 90%	6.12%	×	CCE	\$ 3,736,072	
Design-90% to Final PS&E, Bid Support	3.46%	×	CCE	\$ 2,109,709	
Independent Peer Reviews	1.09%	×	CCE	\$ 666,996	
Total			002	DESIGN TOTAL	\$11,859,
RIGHT OF WAY	1011070				 , ,
ROW Support	1	LS	\$43,000	\$ 43,000	
ROW Capital	1	LS	\$48,000		
NOW Capital		LO		SHT OF WAY TOTAL	
CONSTRUCTION CONTRACT ESTIMATE		l	I INC	SITI OF WAT TOTAL	. 991,
(from 100% Design Est. HNTB 2/2/22)					
Track	1	LS	\$3,956,843	\$ 3,956,843	
Polution Control and SWPPP	1	LS	\$1,601,387	\$ 1,601,387	
Site Civil	1	LS	\$6,275,867	\$ 6,275,867	
Site Civil - Inlet and Bridge RSP	1	LS	\$15,792,673	\$ 15,792,673	
Permanent Revegetation	1	LS	\$379,181	\$ 379,181	
Drainage	1	LS	\$634,784		
Bridge 234.8	1	LS	\$9,497,989		
Br. 324.5 Overhead Pier Protection	1	LS	\$178,883		
Retaining Walls	1	LS	\$2,110,288		
Signals & Communications	1	LS	\$3,009,705		
	1	LS	\$3,009,705		
Nesting Site Restoration	1	LO		uction Estimate (BCE)	
Conoral		ı .	Dase Consu	action Estimate (BCE)) \$44,∠00 <u>,</u>
General	10.00/	- V	DOE	A 4400.000	
Contractor Mobilization	10.0%	X	BCE	\$ 4,428,899	
Bonds and Insurance	5.3%	X	BCE	\$ 2,347,316	
Time Related Overhead (Per Caltrans Contract)	10.0%	X	BCE	\$ 4,428,899	
Construction Contingency	12.5%	X	BCE	\$ 5,536,123	
	c	ONSTR	RUCTION CONTRA	CT ESTIMATE (CCE)	\$61,030,
ANCILLARY CONSTRUCTION COSTS					
Design Support During Construction	4.00%	Х	CCE	\$ 2,441,200	
Construction Management	15.00%	Х	CCE	\$ 9,154,500	
Agency Construction Admin. (SANDAG)	3.50%	х	CCE	\$ 2,136,000	
Agency Construction Program Mangament	0.50%	х	CCE	\$ 305,100	
Legal Services	0.25%	х	CCE	\$ 152,500	
Communications	0.25%	х	CCE	\$ 152,500	
NCTD Admin, Signal & PTC Support	1.00%	Х	CCE	\$ 610,300	
Flagging Services (NCTD)	4.00%	X	CCE	\$ 2,441,200	
Pre Construction Sevices (Caltrans)	4.0070	LS	\$656,000	\$ 656,000	
Ancillary Cost Contingency	3%	%	CCE	\$ 1,830,907	
Total		70		STRUCTION COSTS	
Total	20,070		ANOILLANT CON	01110011011 00010	Ψ10,000,
OFF-SITE ENVIRONMENTAL MITIGATION	ĺ				
Tid-DM-0d- D(I(IMCC	0.00	A	04.450.000	000.011	
	0,26	Acre		\$ 299,244	
Tidal Wetlands Permanent Impact Mitigation		A .	\$1,150,938		
Tidal Wetlands Temporary Impact Mitigation	0.24	Acre	\$780,241		
Tidal Wetlands Temporary Impact Mitigation		Acre Acre		\$ 187,258 \$ 781,542	
Tidal Wetlands Permanent Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Other Wetlands Temporary Impact Mitigation	0.24	Acre	\$780,241		
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation	0.24 1.92 2.76	Acre Acre	\$780,241 \$407,053	\$ 781,542 \$ 952,951	
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation	0.24 1.92 2.76 3.85	Acre Acre Acre	\$780,241 \$407,053 \$345,272 \$262,415	\$ 781,542 \$ 952,951 \$ 1,010,298	
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation	0.24 1.92 2.76 3.85	Acre Acre Acre Acre	\$780,241 \$407,053 \$345,272	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952	
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Other	0.24 1.92 2.76 3.85	Acre Acre Acre	\$780,241 \$407,053 \$345,272 \$262,415	\$ 781,542 \$ 952,951 \$ 1,010,298	
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Other	0.24 1.92 2.76 3.85	Acre Acre Acre Acre	\$780,241 \$407,053 \$345,272 \$262,415	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952	
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Other	0.24 1.92 2.76 3.85	Acre Acre Acre Acre	\$780,241 \$407,053 \$345,272 \$262,415	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952	
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal	0.24 1.92 2.76 3.85	Acre Acre Acre Acre	\$780,241 \$407,053 \$345,272 \$262,415	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952	
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency	0.24 1.92 2.76 3.85 0.26	Acre Acre Acre Acre	\$780,241 \$407,053 \$345,272 \$262,415 \$188,278	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$ -	\$3,280,
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency	0.24 1.92 2.76 3.85	Acre Acre Acre Acre	\$780,241 \$407,053 \$345,272 \$262,415 \$188,278	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$ -	\$3,280,
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency	0.24 1.92 2.76 3.85 0.26	Acre Acre Acre Acre	\$780,241 \$407,053 \$345,272 \$262,415 \$188,278	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$ -	\$3,280,
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency	0.24 1.92 2.76 3.85 0.26	Acre Acre Acre Acre	\$780,241 \$407,053 \$345,272 \$262,415 \$188,278	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$ -	\$3,280,
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency	0.24 1.92 2.76 3.85 0.26	Acre Acre Acre Acre	\$780,241 \$407,053 \$345,272 \$262,415 \$188,278	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$ -	\$3,280,
Tidal Wettands Temporary Impact Mitigation Other Wettands Permanent Impact Mitigation Other Wettands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency TOTAL PROJECT COST ESTIMATE (FY22	0.24 1.92 2.76 3.85 0.26	Acre Acre Acre Acre	\$780,241 \$407,053 \$345,272 \$262,415 \$188,278	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$ -	\$3,280,
Tidal Wettands Temporary Impact Mitigation Other Wettands Permanent Impact Mitigation Other Wettands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency TOTAL PROJECT COST ESTIMATE (FY22	0.24 1.92 2.76 3.85 0.26	Acre Acre Acre Acre	\$780,241 \$407,053 \$345,275 \$262,415 \$188,276	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$	\$3,280,
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency TOTAL PROJECT COST ESTIMATE (FY22 OST ESCALATION	0.24 1.92 2.76 3.85 0.26	Acre Acre Acre Acre Acre %	\$780,241 \$407,053 \$345,572 \$262,415 \$188,278	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$	\$3,280, (\$6,103, \$102,244,
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency TOTAL PROJECT COST ESTIMATE (FY22 OST ESCALATION Year of Expenditure	0.24 1.92 2.76 3.85 0.26	Acre Acre Acre Acre Acre %	\$780,241 \$407,053 \$345,272 \$262,415 \$188,278 CCE	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$ - \$ 6,103,022 Project Contingency	\$3,280, 7 \$6,103, \$102,244,
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency TOTAL PROJECT COST ESTIMATE (FY22 OST ESCALATION	0.24 1.92 2.76 3.85 0.26	Acre Acre Acre Acre Acre %	\$780,241 \$407,053 \$345,572 \$262,415 \$188,278	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$	\$3,280, (\$6,103, \$102,244,
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency TOTAL PROJECT COST ESTIMATE (FY22 OST ESCALATION Year of Expenditure Previous Years	0.24 1.92 2.76 3.85 0.26 10.0% Dollars)	Acre Acre Acre Acre Acre %	\$780,241 \$407,053 \$345,272 \$262,415 \$188,278 CCE	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$ - \$ 6,103,022 Project Contingency Expenditures (Actuals) \$ 11,341,172	\$3,280, \$6,103, \$102,244, TOTAL Escala
Tidal Wettands Temporary Impact Mitigation Other Wettands Permanent Impact Mitigation Other Wettands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency TOTAL PROJECT COST ESTIMATE (FY22 OST ESCALATION Year of Expenditure Previous Years FY22 - Final Design (1/2 Year Escalation)	0.24 1.92 2.76 3.85 0.26 10.0% Dollars)	Acre Acre Acre Acre Acre %	\$780,241 \$407,053 \$345,757 \$262,415 \$188,278 CCE Cumulative Escalation 0.0% 7.9%	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$	\$3,280, \$6,103, \$102,244, TOTAL Escalar \$
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency TOTAL PROJECT COST ESTIMATE (FY22 OST ESCALATION Year of Expenditure Previous Years FY22 - Final Design (1/2 Year Escalation) FY23 - Permit & Bidding	0.24 1.92 2.76 3.85 0.26 10.0% Dollars) Annual 4 7.9% 4.4%	Acre Acre Acre Acre Acre %	\$780,241 \$407,053 \$345,275 \$262,415 \$188,278 CCE Cumulative Escalation 0.0% 7.9% 12.3%	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$	\$3,280, \$6,103, \$102,244, TOTAL Escala \$ \$ 48,
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency TOTAL PROJECT COST ESTIMATE (FY22 OST ESCALATION Year of Expenditure Previous Years FY22 - Final Design (1/2 Year Escalation) FY23 - Permit & Bidding FY24 - 50% Construction	0.24 1.92 2.76 3.85 0.26 10.0% Dollars) Annual 4 7.9% 4.4% 2.9%	Acre Acre Acre Acre Acre %	\$780,241 \$407,053 \$345,272 \$262,415 \$188,278 CCE Cumulative Escalation 0.0% 7.9% 12.3% 15,2%	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$ - \$ 6,103,022 Project Contingency Expenditures (Actuals) \$ 11,341,172 \$ 609,598 \$ 39,156,053	\$3,280, \$6,103, \$102,244, TOTAL Escala \$ \$ 48, \$ \$ 5,947,4
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Permanent Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency TOTAL PROJECT COST ESTIMATE (FY22 OST ESCALATION Year of Expenditure Previous Years FY22 - Final Design (1/2 Year Escalation) FY23 - Permit & Bidding FY24 - 50% Construction FY25 - 100% Construction	0.24 1.92 2.76 3.85 0.26 10.0% Annual 4 7.9% 4.4% 2.9% 2.8%	Acre Acre Acre Acre Acre %	\$780,241 \$407,053 \$345,257 \$262,415 \$188,278 CCE Cumulative Escalation 0.0% 7.9% 12.3% 15.2% 18.0%	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$	\$3,280, \$102,244, TOTAL Escala \$ \$ 48, \$ \$ 5,947, \$ 7,055,
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Temporary Impact Mitigation Uplands Permanent Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency TOTAL PROJECT COST ESTIMATE (FY22 OST ESCALATION Year of Expenditure Previous Years FY22 - Final Design (1/2 Year Escalation) FY23 - Permit & Bidding FY24 - 50% Construction	0.24 1.92 2.76 3.85 0.26 10.0% Pollars) Annual 4 7.9% 4.4% 2.9% 2.8% 2.8%	Acre Acre Acre Acre Acre Acre Acre Acre	\$780,241 \$407,053 \$345,275 \$262,415 \$188,278 CCE Cumulative Escalation 0.0% 7.9% 12.3% 15.2% 18.0% 20.9%	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$	\$3,280, \$102,244, TOTAL Escala \$ \$ 48, \$ \$ 5,947, \$ 7,055,
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Permanent Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency TOTAL PROJECT COST ESTIMATE (FY22 OST ESCALATION Year of Expenditure Previous Years FY22 - Final Design (1/2 Year Escalation) FY23 - Permit & Bidding FY24 - 50% Construction FY25 - 100% Construction	0.24 1.92 2.76 3.85 0.26 10.0% Pollars) Annual 4 7.9% 4.4% 2.9% 2.8% 2.8%	Acre Acre Acre Acre Acre Acre Acre Acre	\$780,241 \$407,053 \$345,257 \$262,415 \$188,278 CCE Cumulative Escalation 0.0% 7.9% 12.3% 15.2% 18.0%	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$	\$3,280, \$102,244, TOTAL Escala \$ \$ 48, \$ \$ 5,947, \$ 7,055,
Tidal Wetlands Temporary Impact Mitigation Other Wetlands Permanent Impact Mitigation Other Wetlands Permanent Impact Mitigation Uplands Permanent Impact Mitigation Uplands Temporary Impact Mitigation Uplands Temporary Impact Mitigation Other Subtotal Project Contingency Contingency TOTAL PROJECT COST ESTIMATE (FY22 OST ESCALATION Year of Expenditure Previous Years FY22 - Final Design (1/2 Year Escalation) FY23 - Permit & Bidding FY24 - 50% Construction FY25 - 100% Construction	0.24 1.92 2.76 3.85 0.26 10.0% Pollars) Annual 4 7.9% 4.4% 2.9% 2.8% 2.8%	Acre Acre Acre Acre Acre Acre % %	\$780,241 \$407,053 \$345,275 \$262,415 \$188,278 CCE Cumulative Escalation 0.0% 7.9% 12.3% 15.2% 18.0% 20.9%	\$ 781,542 \$ 952,951 \$ 1,010,298 \$ 48,952 \$	\$3,280, \$102,244, TOTAL Escala \$ \$ 48, \$ \$ 5,947, \$ 7,055,

SANDAG: Batiquitos Lagoon Double-Track (BLDT) Project CIP 12398 100% Construction Cost Estimate (CCE)	16				Prepared by: HNTB Date: Feb. 2022
			2021		
Item	Quantity	Unit	Unit Price	Amount 100%	Subtotals
Design Costs					
DesignAlternatives Analysis & Environmental + Preliminary to 30%	1.00	1	Contracted	\$2,660,906	
Design30% to 60% and Permits + 60% to Final PS&E, GMP Bid Support Agency Design Admin SANDAG	1.00 3.60	1 %	Contracted Current CCE	\$5,404,644 \$2,088,767	
Agency Program Mgmt, - SANDAG	2.20	%	Current CCE	\$1,276,469	
Agency Design Admin NCTD/MTS	0.65	%	Current CCE	\$377,139	
Independent Peer Reviews	0.80	%	Current CCE	\$464,171	\$12,272,095
Right-of-Way & Utilities					V:=,=:=,500
Temporary R/W, Easements	1	LS	\$1,000,000		
R/W & Utility Contingency at 90% Design (7.5%)	7.5	%	R/W Costs	\$75,000	\$1,075,000
Construction Cost Estimate based on 90% Design Package					\$1,070,000
1 - Trackwork Track Removal	2.424	TC	¢42	¢444.220	
Special Trackwork Removal	3,434	TF LS	\$42 \$45,000	\$144,228 \$45,000	
Install New Track, 136RE CWR, Concrete Ties	6,400	TF	\$360		
Install New Track, 136RE CWR, Wood Ties	450		\$520		
Install New No. 24 Wood Power Operated Turnout Install Transition Rail	3	EA Pair	\$655,000 \$15,000	\$655,000 \$45,000	
Install Insulated Joints, (39'-0")	2	Pair	\$15,000		
Install Double Inside Guard Rails	872	TF	\$105		
Shift Track Surface, Line, and Dress Existing Track	710 794		\$100 \$30		
Grade Crossing	50		\$506	\$25,300	
Temporary Construction Grade Crossing	2	EA	\$20,000	\$40,000	
Subballast & Class 2 Aggregate Base (Permanent Access Road) Relocate Existing Mile Post Marker	3,547 1	CY	\$110 \$165	\$390,170 \$165	
Relocate Existing Mile Post Marker Bridge Marker	1	EA EA	\$165 \$310		
Control Point Sign	1	EA	\$1,650		
No Trespassing and Cable Marker	8		\$310		
Construction Project Funding Identification Sign Warning Construction Traffic Sign	2	EA EA	\$2,750 \$1,100		
2 - Site Civil - Pollution Control & SWPPP	-	LA	\$1,100	Ψ2,200	\$4,111,383
Lead Compliance Plan	1	LS	\$6,000	\$6,000	
Temporary ESA/Silt Fence	8,800		\$9.00	\$79,200	
Temporary ESA Fence Temporary Check Dam	4,600 1,400		\$9.00 \$14		
Temporary Fiber Rolls	15,800		\$8.00		
Turbidity Curtain	1,700	LF	\$70	\$119,000	
Oil Containment Boom	1,700		\$70		
Move-In/Move-Out (Temporary Erosion Control) Temporary Hydraulic Mulch	23,000	EA SY	\$1,000 \$1.80	\$2,000 \$41,400	
Temporary Construction Entrance	3	EA	\$6,000		
Temorary Drainage Inlet Protection	2	EA	\$1,700		
Prepare SWPPP Job Site Management	1 24	LS MO	\$6,000 \$11,500		
Storm Water Annual Report	2	EA	\$2,500		
Rain Event Action Plan	48		\$1,000	\$48,000	
Stormwater Sampling and Analysis Temporary Concrete Washout	12		\$1,500 \$17,500		
Street Sweeping	24	-	\$10,000		
Stockpile Management	13,200		\$9.00		
SWPPP Maintenance Post Construction BMP Maintenance	1 6	LS MO	\$181,000 \$6,000	\$181,000 \$36,000	
	0	IVIC	\$6,000	\$30,000	\$1,539,200
3 - Site Civil Develop Water (CMGC- No spec pay item)	1	LS	\$102,000	\$102,000	
Clearing and Grubbing	4.6	AC	\$6,840	\$31,464	
Remove Fencing	975		\$14		
Remove CMB Wall w/ Steel Fence RR Earthwork Excavation - North of BR 234.8	190 31,600		\$21 \$54	\$3,990 \$1,706,400	
RR Earthwork Excavation - South of BR 234.8	22,100		\$48	\$1,060,800	
Ground Improvement (Compaction Grouting at BR234.8)	1	LS	\$351,050		
Non-hazardous Soil Profiling, Haul and Disposal Temporary Excavation (Laydown Area La Costa)	4,800 1,400		\$68 \$48		
Embankment Fill Placed Underwater (Ballast over Cl 2 Permeable Material) - North	2,100		\$102	\$214,200	
Embankment Fill Placed Underwater (Ballast over Cl 2 Permeable Material) - South	6,700		\$102		
Excavation Underwater for Embankment Fill	8,800		\$48		
Minor Concrete (6" THK Slurry on lagoon RSP)	11,300	SF	\$11	\$124,300	
Cellular Confinement System (4" THK w/ Soil Fill)	10,673	SF	\$11	\$117,403	
Surfacing (Class 2 Base) for Temporary Access Roads and Staging Areas (6" THK)	178,875	SF	\$2.10	\$375,638	
Crushed Miscellaneous Base (Access Road Stabilization)	650		\$75		
Gravity Block Retaining Wall (MP 235.07)	245		\$109	\$26,823	
Gravity Block Retaining Wall (MP 234.25) Hand Rails	150 62		\$109 \$55	\$16,422 \$3,410	
Hand Rails Chain Link Fence (6' High)	5,924		\$55 \$95	\$3,410 \$562,780	
Chain Link Fence 10' High with 1" Mesh (Including Barbed Wire)	68	LF	\$115	\$7,820	
Chain Link Fence 8' High with 1" Mesh (Including Barbed Wire)	45		\$105	\$4,725	
Chain Link Gate, 3' Wide	3		\$1,505	\$4,516	
Chain Link Gate, 6' Wide	າ	⊢ Δ '		S2 (101)	
Chain Link Gate, 6' Wide Chain Link Gate, 10' Wide	2 6		\$2,000 \$2,737	\$4,000 \$16,422	

SANDAG: Batiquitos Lagoon Double-Track (BLDT) Project CIP 12398 100% Construction Cost Estimate (CCE)	16 				Prepared by: HNTB Date: Feb. 2022
h	0	1114	2021	A 4000/	Cultartella
Item Minor Concrete (Pervious Pavement, 6" THK over 6" Class 2 Base)	Quantity	Unit	Unit Price	Amount 100%	Subtotals
Steel Fence (7.2' High)	3,506 148	SF LF	\$27 \$137	\$95,959 \$20,254	
Concrete Slope Protection Removal (at Encinas OH)	1,458	SF	\$5.95		
12" Aband. Gas Main (Removal / Slurry Fill)	1100	LF	\$68	\$74,613	40 500 400
4 - Site Civil - Inlet & Bridge RSP					\$6,506,126
Remove Existing Rock	12,500	CY	\$34.00	\$425,000	
Temporary Shoring (West of Ex. BR 234.8) Temporary Construction (Access road for RSP site work)	6,000 48,800	SF SF	\$250 \$0.39	\$1,500,000 \$19,041	
EXCAVATION UNDERWATER for RSP - North	41,800	CY	\$43	\$1,797,296	
EXCAVATION UNDERWATER for RSP - South	16,300	CY	\$43	\$700,859	
Temporary Construction (Work Berm & Platform)	1	LS	\$1,365,390	\$1,365,390	
CLASS 8 NON-WOVEN GEOTEXTILE FILTER	29,800	SF	\$8.00	\$238,400	
CLASS VIII RSP - North	8,600	CY	\$240	\$2,064,000	
CLASS V RSP- North	6,900		\$223	\$1,538,700	
CLASS I RSP W/ NON-WOVEN GEOTEXTILE FILTER FABRIC - North CLASS VIII RSP - South	5,100	CY	\$240	\$1,224,000 \$2,064,000	
CLASS VIII RSF - South	8,600 6,900	CY	\$240 \$223	\$2,064,000	
CLASS I RSP W/ NON-WOVEN GEOTEXTILE FILTER FABRIC - South	F 400	0)/	#2.40	64 224 000	
	5,100	CY	\$240	\$1,224,000	\$15,699,385
5 - Permanent Revegetation					, , , , , , , , , , , , , , , , , , , ,
Move-In/Move-Out (Permanent Hydroseeding Erosion Control)	3	EA	\$875	\$2,625	
On-Site Revegetation (Hydroseeding w/ BFM including testing)	59,900	SY	\$7.90	\$473,210	
On-Site Revegetation (365-Day Irrigation-Hand water w/ hose & water truck)	42	_,	e2.000	#24.000	
On-Site Revegetation (365-Day Maintenance)	12 12	EA EA	\$2,000 \$6,500	\$24,000 \$78,000	
Resod & Restore Irrigation	2,705	SF	\$5.00	\$13,525	
6 - Drainage					\$591,360
Remove Concrete Channel	2,000	SF	\$7.25	\$14,500	
Remove 22" Steel Culvert	40	LF	\$28	\$1,120	
Articulated Concrete Block (ACB) Ditch (w/ 6" THK Bedding & Soil Infill) RSP (Class VII)- Rock Chute - Grouted	3,600 135	SF CY	\$24.00 \$209	\$86,400 \$28,215	-
RSP (Class I) - North	60	CY	\$150		
RSP (Class 1)- South	127	CY	\$150	\$19,050	
24" RCP (D-3000) Storm Drain 42" RCP (D-3000) Storm Drain	210 125	LF LF	\$314 \$425	\$65,940 \$53,125	
8" PVC Underdrain (Sch 80)	146	LF	\$116	\$16,936	
Minor Concrete (U-Ditch w/Grate) Minor Concrete (Headwall)	65 4	LF EA	\$225 \$6,850	\$14,625 \$27,400	
Minor Concrete (Drop Structure)	1	EA	\$2,500	\$2,500	
Minor Concrete (Trackside Ditch Type 1)					
Infilition Contracte (Trackside Ditor Type T)	1736	LF	\$137	\$237,572	
Minor Concrete (Trackside Ditch Type 2)	200	LF	\$89	\$17,850	
Minor Concrete (Trackside Ditch 3) Ballast Lined Ditch	55 310	LF LF	\$145 \$24	\$7,975 \$7,440	
Concrete Headwall (L Type Headwall & Slope Paving)	1	EΑ	\$5,500	\$5,500	
Gravity Block Retaining Wing Wall (MP 235.13) Hand Rails	100	SF LF	\$109 \$55	\$10,948 \$1,100	
The Trains	20		\$60	\$1,100	\$627,196
7 - Br.234.8 - Batiquitos Lagoon Rail Bridge	1.110		4000	04.040.700	
Furnish 30" OD CISS Pile Drive 30" OD CISS Pile	4,112 4,112	LF LF	\$328 \$268	\$1,348,736 \$1,102,016	
Furnish 36" OD CISS Pile	803	LF	\$417	\$334,851	
Drive 36" OD CISS Pile Structural Concrete, Bridge	803 379		\$298 \$1,785	\$239,294 \$676,515	
Structural Concrete, Piles	693		\$1,785	\$1,237,005	
Furnish and Erect Precast 56' Box Girder	24		\$108,000	\$2,592,000	
Bar Reinforcing Steel (Epoxy Coated) (Bridge) Cable Railing	277,000 754	LB LF	\$3.00 \$55	\$831,000 \$41,470	
Structural Steel (Restrainer Rod Assembly)	24,700	LB	\$12	\$293,930	
Miscellaneous Metal (Walkway)	672	LF	\$18	\$12,096	
Elastomeric Bearing Pad Assembly Abutment (3 pads at each box end) Elastomeric Bearing Pad Assembly Pier (3 pads at each box end)	8 40	EA EA	\$4,165 \$3,570	\$33,320 \$142,800	
Asphalt Membrane Waterproofing	10,444	SF	\$17	\$177,548	
Structural Excavation	34	CY	\$188	\$6,392	
Structural Backfill Br. 234.8 Removal	84	CY LS	\$125 \$655,500	\$10,500 \$655,500	
STEETS NOTIFIED			Ψουσ,υθθ	ψουυ,υυυ	\$9,734,973
8 - Br.234.5 - Avenida Encinas Overhead Pier Protection			***	000.46	
Structural Excavation (Pier Protection Wall) Structural Backfill (Pier Protection Wall)	194 71	CY	\$188 \$125		
Structural Concrete (Pier Protection Wall)	93	CY	\$969	\$89,952	
Bar Reinforcing Steel (Pier Protection Wall)	18,800	LB	\$2.00	\$37,600	\$172,947
9 - Site Structural - Retaining Walls					\$172,947
Soldier Pile RW 2022W					
Structural Excavation (Soldier Pile Wall) Structural Backfill (Soldier Pile Wall)	41	CY	\$135 \$130		
Structural Backfill (Soldier Pile Wall) Structural Concrete Backfill (Soldier Pile Wall)	14 24	CY	\$130 \$443	\$1,820 \$10,632	
Lean Concrete Backfill	9	CY	\$350	\$3,150	
Steel Soldier Pile (W14x68) Steel Soldier Pile (W14x432)	42	LF	\$63	\$2,646 \$7,030	
Steel Soldier Pile (W14x132)	55 109	LF LF	\$144 \$371	\$7,920 \$40,439	

SANDAG: Batiquitos Lagoon Double-Track (BLDT) Project CIP 12398	16				Prepared by: HNTB
100% Construction Cost Estimate (CCE)					Date: Feb. 2022
			2021		
Item	Quantity	Unit	Unit Price	Amount 100%	Subtotals
Drilled Hole (30" Dia.) Structural Concrete (Retaining Wall)	139 18	LF CY	\$184 \$1,027	\$25,576 \$18,486	
Bar Reinforcing Steel (Retaining Wall)	2,700	LB	\$2.00	\$5,400	
Minor Conc (Gutter)	41	LF	\$60	\$2,460	
Timber Lagging	151	CF	\$59	\$8,909	
Zinc Primer	406	SF	\$7.00	\$2,842	
Miscellaneous Steel (Studs)	160	LB	\$3.00	\$480	
Cable Railing	41	LF	\$55	\$2,255	\$138,550
Soldier Pile RW 2023W					\$130,330
Structural Excavation (Soldier Pile Wall)	97	CY	\$135	\$13,095	
Structural Backfill (Soldier Pile Wall)	20		\$130	\$2,600	
Structural Concrete Backfill (Soldier Pile Wall)	38	CY	\$443	\$16,834	
Lean Concrete Backfill Steel Soldier Pile (W14x68)	12 24	CY LF	\$350 \$63	\$4,200 \$1,512	
Steel Soldier File (W21x201)	223	LF	\$227	\$50,621	
Drilled Hole (30" Dia.)	15	LF	\$184	\$2,760	
Drilled Hole (36" Dia.)	138	LF	\$188	\$25,944	
Structural Concrete (Retaining Wall)	23	CY	\$1,027	\$23,624	
Bar Reinforcing Steel (Retaining Wall)	3,100	LB	\$2.00	\$6,200	
Timber Lagging Zinc Primer Coating	213 636	CF SF	\$58 \$6.56	\$12,384 \$4,169	
Miscellaneous Steel (Studs)	215	LB	\$6.78	\$1,458	
Cable Railing	40	29	\$55	\$2,200	
					\$167,601
Temporary Shoring (Laydown area next to RW2023)		ا ا	* . ~ -		
,	3,850	SF	\$108	\$415,800	\$415,800
Soldier Pile RW 2025W		\vdash			\$415,800
Structural Excavation (Soldier Pile Wall)	326	CY	\$135	\$44,010	
Structural Backfill (Soldier Pile Wall)	40	CY	\$130	\$5,200	
Structural Concrete Backfill (Soldier Pile Wall)	47	CY	\$473	\$22,231	
Lean Concrete Backfill	21	CY	\$391	\$8,211	
Steel Soldier Pile (W14x68) Steel Soldier Pile (W14x132)	109 111	LF LF	\$68 \$144	\$7,412 \$15,984	
Steel Soldier Pile (W14x102)	76	LF	\$172	\$13,072	
Steel Soldier Pile (W14x82)	24	LF	\$192	\$4,608	
Steel Soldier Pile (W18x175)	123	LF	\$205	\$25,215	
Drilled Hole (30" Dia.)	274	LF	\$184	\$50,416	
Structural Concrete (Retaining Wall)	64	CY	\$1,027	\$65,728	
Bar Reinforcing Steel (Retaining Wall) Minor Concrete (Gutter)	8,900 138	LB LF	\$2.00 \$62	\$17,800 \$8,556	
Timber Lagging	517	CF	\$58	\$29,986	
Zinc Primer	919	SF	\$6.90	\$6,343	
Miscellaneous Steel (Studs)	390	LB	\$6.90	\$2,692	
Cable Railing	138	LF	\$55	\$7,590	
PMB (T-Wall) 2039E					\$335,054
STRUCTURAL EXCAVATION (PMB WALLS)	1,100	CY	\$90	\$99,000	
STRUCTURAL BACKFILL-PERVIOUS (PMB WALLS)	39	CY	\$143	\$5,577	
STRUCTURAL BACKFILL-COMPACTED (PMB WALLS)	990	CY	\$143	\$141,570	
PMB RETAINING WALL	978	SF	\$97	\$94,866	
Cable Railing	92	LF	\$55	\$5,060	
PMB (T-Wall) 2045E					\$346,073
Structural Excavation	740	CY	\$90	\$66,600	
Structural Backfill - Pervious	20	_	\$143	\$2,860	
Structural Backfill - Compacted	543		\$143	\$77,649	
PMB RETAINING WALL	530	SF	\$97	\$51,410	
Cable Railing	56		\$55	\$3,080	
					\$201,599
Soil Nail RW 2059E				*	
Structural Excavation (Soil Nail Wall)	446	CY	\$135	\$60,210	
Structural Shotcrete	32	CY	\$1,075	\$34,400	
Bar Reinforcing Steel (Retaining Wall)	5,270		\$2.00	\$10,540	
Soil Nail Assembly	862	LF	\$77	\$66,374	
Misc Metal	1,125		\$6.84	\$7,698	
Minor Conc (Gutter) Cable Railing	94	LF LF	\$62 \$55	\$5,828 \$5,170	
Captervalling	94	LF	\$55	\$5,170	\$190,220
Ground Anchor Diaphragm RW 2059E					\$100,220
Structural Excavation (Ground Anchor Wall)					
Stational Executation (Stound Attended TVall)	86	CY	\$135	\$11,610	
Structural Backfill (Ground Anchor Wall)	39	CY	\$218	\$8,502	
Ground Anchor-Subhorizontal	45		\$4,653	\$209,385	
Structural Concrete	35	CY	\$1,027	\$35,945	
Structural Shotcrete	41	CY	\$1,075	\$44,075	
Minor Conc (Gutter)	92	LF	\$62	\$5,704	
Bar Reinforcing Steel (Retaining Wall)	21,000	LB	\$2.00	\$42,000	
Cable Railing	92	LF	\$55	\$5,060	\$362,281
					\$302,201
10 - Railway Signaling and Communications					42 ,101,110
Testing at 233 Signals - MP 233.5	1	LS	\$29,931	\$29,931	
Install Electric Switch Lock Case - MP 234.2	1	LS	\$261,081	\$261,081	
Remove Existing CP Ponto - MP 234.5	1	LS	\$71,616	\$71,616	
Install New CP La Costa - MP 235.1	1	LS	\$1,364,317	\$1,364,317	
Testing at 236 Intermediate Signals - MP 236.5	1	LS	\$29,931	\$29,931	
Wireless Mesh Node Relocation	1	LS	\$50,000	\$50,000	

SANDAG: Batiquitos Lagoon Double-Track (BLDT) Project CIP 12398	16				Prepared by: HNTB
100% Construction Cost Estimate (CCE)					Date: Feb. 2022
			2021		
Item	Quantity	Unit	Unit Price	Amount 100%	Subtotals
Fiber Duct Bank and Cable Relocation	1	LS	\$780,932	\$780,932	
Signal Spare Parts	1	LS	\$62,116	\$62,116	
					\$2,649,924
11 - Nesting Site Restoration					
GRAVEL BACKING (D50= 1.5 IN W/ CLASS 8 RSP GEOTEXTILE)	1300	CY	\$127	\$165,100	
Cobble Slope Protection	3850	CY	\$78	\$300,300	
Salvaged RSP (400 lb or less)	1300	CY	\$102	\$132,600	
Native/Reuse Sand Fill (Non-pay item)	7350	CY	\$42	\$308,700	
Erosion Control for Nesting Site Restoration					
Temporary ESA/SILT Fence	2,000	LF	\$9.00	\$18,000	
Turbidity Curtain	750	LF	\$70	\$52,500	
Oil Containment Boom	750	LF	\$70	\$52,500	
Temporary Channel Crossing (incl. 5 rows of 42" HDPE Pipe)	1	LS	\$41,650	\$41,650	
			•	•	\$1,071,350
Base Construction Cost Est. (BCE)					\$43,789,672



U.S. Department of Transportation Federal Transit Administration

Mr. Gary L. Gallegos
Executive Director
San Diego Association of Governments
401 B St., Suite 800
San Diego, CA 92101

REGION IX Arizona, California, Hawaii, Nevada, Guam American Samoa, Northern Mariana Islands 201 Mission Street Suite 1650 San Francisco, CA 94105-1839 415-744-3133 415-744-2726 (fax)

FEB 27 2014

Attention: Rob Rundle

Re: Pacific Surfliner Bridges Project

Dear Mr. Gal

The Federal Transit Administration has completed its review of the San Diego Association of Governments' (SANDAG) letter, dated January 27, 2014, requesting an environmental determination for the Pacific Surfliner Bridges Project. Your letter and supporting documentation states that the project is consistent with the criteria associated with a categorical exclusion type (d)(2). Based on the information submitted, we have determined that the project qualifies as a categorical exclusion under 23 CFR § 771.118(d)(2): bridge replacement, or rail grade separation.

This review, which is based on past experience with similar projects, finds that the project: does not induce significant environmental impacts to planned growth or land use for the area; does not require the relocation of significant numbers of people; does not have a significant impact on natural, cultural, recreational, historical or other resource; does not involve significant air, noise, or water quality impacts; does not have significant impacts on travel patterns; does not result in a use or constructive use of historic or other resources within the meaning of Section 4(f) of the Department of Transportation Act, 49 USC § 303; and does not otherwise, either individually or cumulatively, have any significant environmental impact.

If you have any questions about this review, please contact Mr. Alex Smith at (415) 744-2599.

Sincerery,

Leslie T. Rogers

Regional Administrator

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U.S. Department of Transportation

Federal Transit Administration

Application

Recipient ID:	1620
Recipient Name:	SAN DIEGO ASSOCIATION OF GOVERNMENTS
Project ID:	CA-95-X129-03
Budget Number:	4 - Budget Approved
Project Information:	LOSSAN Corridor/Trk Rehab/Renov

Part 2: Project Information

Project Type:	Grant
Project Number:	CA-95-X129-03
Project Description:	LOSSAN Corridor/Trk Rehab/Renov
Recipient Type:	Council of Governments
FTA Project Mgr:	Susan Chu
Recipient Contact:	Michelle Smith
New/Amendment:	Amendment
Amend Reason:	Increase Award
Fed Dom Asst. #:	20507
Sec. of Statute:	5307-3
State Appl. ID:	None Specified
Start/End Date:	Jan. 30, 2014 - Jun. 30, 2019
Recvd. By State:	Jun. 26, 2014
EO 12372 Rev:	Not Applicable
Review Date:	None Specified
Planning Grant?:	NO
Program Date (STIP/UPWP/FTA Prm Plan) :	Dec. 14, 2012
Program Page:	SAN114
Application Type:	Electronic
Supp. Agreement?:	No
Debt. Delinq. Details:	

Gross Project Cost:	\$23,260,474
Adjustment Amt:	\$0
Total Eligible Cost:	\$23,260,474
Total FTA Amt:	\$20,592,498
Total State Amt:	\$0
Total Local Amt:	\$2,667,976
Other Federal Amt:	\$0
Special Cond Amt:	\$0
Special Condition:	None Specified
S.C. Tgt. Date:	None Specified
S.C. Eff. Date:	None Specified
Est. Oblig Date:	None Specified
Pre-Award Authority?:	Yes
Fed. Debt Authority?:	No
Final Budget?:	No

Urbanized Areas

UZA ID	UZA Name

View Print Page 2 of 4

60190	SAN DIEGO, CA
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Congressional Districts

State ID	District Code	District Official
6	49	Darrell E Issa
6	50	Duncan Hunter
6	51	Juan Vargas
6	52	Scott H Peters
6	53	Susan A Davis

Project Details

Amendment No. 3

Amendment No. 3 adds \$20,592,498 FFY 14 CMAQ funds to this grant. All funding will be requested at 88.53%. This was part of Amendment No. 12 to the 2012 RTIP which was federally approved on February 27, 2014. Additional funding is expected to aid in the funding of the various projects included in this grant.

122403

This additional funding will provide funds for the construction phase of 2 projects along the LOSSAN Coastal Rail Corridor.

- -- The San Diego River Bridge (CIP 1239815; SAN114) will provide double tracking of the COASTER bridge over San Diego River from Mile Post (MP) 263.2 to MP 264.1 and consists of constructing 0.9 miles of double-track and a new bridge. Total project will consist of FTA and local TransNet funds with a total project cost of \$82,400,249, whereas \$10,296,249 of the transfer will aid in funding this project. Total amount of CMAQ/FTA Transfer funds is \$10,296,249 with local funding of approximately \$72,000,000.
- -- The Batiquitos Lagoon Double Track (CIP 1239816; SAN114) will construct 2.7 miles of double-track and a new bridge over Batiquitos Lagoon along the Coastal Rail Corridor over Batiquitos Lagoon from Mile Post (MP) 234.5 to MP 237.2. Total project will consist of FTA and local TransNet funds with a total project cost of \$61,400,265, whereas \$10,296,249 of the transfer will aid in funding this project. Total amount of CMAQ/FTA transfer funds is \$10,296,249 with local funding of about \$51,000,000

The above amount is in addition to the previously approved transfers of \$68,919,000 of STP and \$41,420,000 of CMAQ funds to FTA Grant CA-95-X129 (EA: 11-956666, MPO ID: SAN114/119/132/73) federally approved August 1, 2011 and August 23, 2012 and April 12, 2013 respectively. Including this amendment, the Federal funds total \$130,931,498. These funds are expected to fully fund the scope of this project.

The LOSSAN Rail Corridor Agency is a joint powers agency that was formed in 1989 to coordinate intercity rail service between Los Angeles and San Diego. In 2001, the agency expanded to include rail agencies and operators north of Los Angeles to San Luis Obispo. LOSSAN seeks to increase ridership, revenue, capacity, reliability, and safety on the 351 mile long coastal rail corridor from San Diego to Los Angeles to San Luis Obispo. Members of LOSSAN consist of the rail owners and operators and regional transportation planning agencies along the six-county coastal corridor.

In 2013, legislation was approved (SB 1225) that enables substantial changes to the LOSSAN Joint Powers Agreement, including the ability for LOSSAN to take on the day-to-day responsibility of managing the Pacific Surfliner service, introduction of supermajority voting for key policies, and the switch of the Riverside County Transportation Commission from ex-officio member to voting member and Caltrans from voting member to ex-officio member. These changes were unanimously approved by LOSSAN member agencies. LOSSAN selected OCTA to become the LOSSAN Managing Agency which is responsible for administering LOSSAN and negotiating an Interagency Transfer Agreement with the State to transition the operating responsibility from the state to LOSSAN by June 2015.

The LOSSAN rail corridor or Pacific Surfliner corridor, is the second busiest intercity rail corridor in the nation supporting commuter, intercity, and freight rail services. The existing right-of-way includes 47 rail bridges, with 34 of them more than 50 years old.

The 351-mile rail corridor stretches from San Luis Obispo to San Diego, connecting major metropolitan areas of Southern California and the Central Coast. Train operations on the line include Amtrak's Pacific Surfliner; the Southern California Regional Rail Authority's Metrolink and the North County Transit District's COASTER and SPRINTER passenger rail services; and Union Pacific and BNSF Railway freight rail services.

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Each year, more than 2.7 million intercity passengers and 4.5 million commuter rail passengers (Metrolink and COASTER) travel the LOSSAN corridor. One in every nine Amtrak riders uses the corridor.

The 60-mile San Diego segment of the LOSSAN corridor extends from the Orange County line to the Santa Fe Depot in downtown San Diego. The segment passes over six coastal lagoons, Camp Pendleton, and the cities of Oceanside, Carlsbad, Encinitas, Solana Beach, and Del Mar before coming to its final destination in downtown San Diego. Approximately 50 trains operate each weekday on the segment south of Oceanside.

During the next 20 years, SANDAG plans to construct nearly \$1 billion in improvements in the San Diego County section, including a primary effort to double track the corridor from Orange County to downtown San Diego. As a companion to the I-5 freeway, the San Diego segment of the LOSSAN corridor plays a critical role in the movement of people and goods within the region's North Coast Corridor.

Projects included in this grant are located in the San Diego region of the San Diego-Los Angeles-San Luis Obispo (LOSSAN) rail corridor and will provide track improvements including crossover and double tracking and stub and run-through tracks along the corridor.

San Diego County is represented on LOSSAN by board members from North County Transit District (NCTD), San Diego Metropolitan Transit System (MTS), and SANDAG. NCTD is responsible for operating, and service planning associated with the COASTER commuter rail service, and maintenance of the tracks along the entire corridor from the County Line to Downtown San Diego. NCTD is the owner of the rail right of way from the County Line to the southern boundary of the city of Del Mar. SANDAG is responsible long range planning and implementation of transit capital projects including all double track projects within San Diego County. MTS owns the LOSSAN corridor from the southern boundary of the city of Del Mar to Downtown San Diego. BNSF Railway operates freight service on the LOSSAN corridor in San Diego County.

SANDAG, in cooperation with the state Department of Transportation (Caltrans), the North County Transit District (NCTD), AMTRAK and Burlington Northern Santa Fe Railway conducted a major rail corridor study which determined the need for improvement. Many areas were identified and initial work will provide track improvements at bottleneck locations and includes crossover track, double track, and stub, grade separations, bridge replacements, bluff stabilization, positive train control and runthrough tracks at various stations along the corridor to help prevent train-to-train collisions.

The corridor improvements are located in the cities of San Diego, Solana Beach, Encinitas, Carlsbad, Oceanside and Camp Pendleton. These improvements will increase the amount of double track on the 60-mile corridor from 32 miles to 46 miles, improve operational effectiveness and reliability and will increase the capacity on the corridor from 73 trains to 93 trains.

The rail system will have direct connectivity to the State's future High-Speed Train (HST) network by providing improvements to key feeder service in the LOSSAN corridor that will connect to HST at Anaheim and Los Angeles. These track capacity improvements are included in the state priorities outlined in the California State Rail Plan.

SAN114, 2008 RTIP, Amend# 24, 4/16/2010, State Approved 4/20/2010.

Amendment No. 2

This Amendment adds \$36,180,000 FFY 12 STP funds to this grant. All funding will be requested at 88.53%. Additional funding is expected to aid in the funding of the various projects included in this grant. The above amount is in addition to the previously approved transfer of \$32,739,000 of STP and \$41,420,000 of CMAQ funds to FTA Grant CA-95-X129 (EA: 11-956666, MPO ID: SAN114/119/132/73) federally approved August 1, 2011 and August 23, 2012 respectively. Including this amendment, the Federal funds total \$110,339,000. These funds are expected to fully fund the scope of this project.

Amendment No. 2 (March 2013) added funds to fund for the increase in budget for the San Elijo Lagoon (Cardiff to Craven) Double Tracking project (SAN73). This project will design and construct double tracking for the Coastal Rail Trail from CP Cardiff (MP 240.4) to CP Craven (MP 240.7) across the San Elijo Lagoon. This project and all projects included in the grant do not add additional service. Total project will consist of FTA and local TransNet funds with a total project cost of \$76,700,366, whereas \$36,180,000 of the transfer will aid in funding this project.

Amendment No. 1

This Amendment adds \$21,001,000 in RSTP funding (SAN117 & SAN119) and \$41,420,000 in CMAQ funding (SAN119 &

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SAN132) to this grant. All funding will be requested at 88.53%. 2010 RTIP, 12/10/10 Amend# 2, State approved 1/3/2011 and Federal approval received 1/28/2011. Funding transfer of \$19,318,000 in CMAQ and \$21,001,000 of RSTP to the FTA was approved on 3/22/2011. Additional CMAQ transfer of \$22,102,000 is pending.

Amendment No. 1 (June 2011) added funds to fund several projects along the Coastal Rail Corridor for the Preliminary Engineering and Construction phases. The projects include:

- -- Sorrento Valley Double Track (CIP 1239807; SAN119) which will construct double track, including signals, track elevation out of the floodplain and a new double track bridge from MP 247.8 to MP 248.9. This project and all projects included in the grant do not add additional service. Total project will consist of FTA, state and local TransNet funds with a total project cost of \$30,789,755 whereas \$16,728,000 of the transfer will aid in funding this project.
- -- Elvira to Morena Double Track (CIP 1239811, SAN132) which will construct 2 miles of double track and realignment including signals and switches between MP 257.9 and MP 260.5. This project and all projects included in the grant do not add additional service. Total project will consist of FTA, FRA and local TransNet funds with a total project cost of \$95,000,492 whereas \$29,567,000 of the transfer will aid in funding this project.

Earmarks

No information found.

Security

No – We will not expend at least 1% of the 5307 funds in this grant application for security purposes.

1. No Deficiency found from threat/vulnerability assessment.

Grant applicant has conducted a threat and vulnerability assessment and finds there are no deficiencies that require additional investment in security projects at this time. [The threat and vulnerability assessment is No.8 in Top 20 Security Action list at http://transit-safety.volpe.dot.gov/security/SecurityInitiatives/Top20/default.asp]

Part 5. Environmental Findings

12200 LOSSAN Corridor

5 \$130,931,498 \$153,719,776

Finding No. 1 - Class II(c)

C08 - Maintenance, rehab, reconstruction of facilities

Maintenance, rehabilitation, and reconstruction of facilities that occupy substantially the same geographic footprint and do not result in a change in functional use, such as: improvements to bridges, tunnels, storage yards, buildings, stations, and terminals; construction of platform extensions, passing track, and retaining walls; and improvements to tracks and railbeds.





FTA

U.S. Department of Transportation

Federal Transit Administration

Application

Recipient ID:

1620

Recipient Name:

SAN DIEGO ASSOCIATION OF GOVERNMENTS

Project ID:

CA-95-X129-01

Budget Number:

2 - Budget Approved

Project Information:

LOSSAN Corridor/Trk Rehab/Renov

Part 5. Environmental Findings

122403 REHAB/RENOV LINE EQUIP/STRUCTURES - RSTP

0 \$23,078,000

\$31,909,217

Finding No. 1 - Class II(c)

C18 - Track & railbed maintenance/improvements

Track and railbed maintenance and improvements when carried out within the existing right-of-way.

Finding Details:

These LOSSAN corridor improvements are located in the cities of San Diego, Carlsbad, Oceanside and Camp Pendleton. These improvements will increase the amount of double track on the 60 mile corridor from 32 miles to 42 miles.

Based on the information submitted, FTA finds that the project qualifies as a categorical exclusion under 23 CFR 771.117 (c) and is consistent with the requirements for this categorical exclusion. This review, which is based on past experience with similar projects, finds that the project: does not induce significant environmental impacts to planned growth or land use for the area; does not require the relocation of significant numbers of people; does not have a significant impact on natural, cultural, recreational, historical or other resource; does not involve significant air, noise, or water quality impacts; does not have significant impacts on travel patterns; or does not otherwise, either individually or cumulatively, have any significant environmental impact. All rehab/renovation will be conducted on already existing structures and carried out within the existing right of way. Based on the foregoing, SANDAG believes that this project qualifies for a categorical exclusion (CE) pursuant to 23 CFR 771.117 (c) (18) and requests your approval of the same.

122303 CONSTRUCT LINE EQUIP/STRUCTURE - RSTP

0

\$9,661,000

\$10,912,685

Finding No. 1 - Class II(c)

C18 - Track & railbed maintenance/improvements

Track and railbed maintenance and improvements when carried out within the existing right-of-way.

Finding Details:

These LOSSAN corridor improvements are located in the cities of San Diego, Carlsbad, Oceanside and Camp Pendleton. These improvements will increase the amount of double track on the 60 mile corridor from 32 miles to 42 miles.

Based on the information submitted, FTA finds that the project qualifies as a categorical exclusion under 23 CFR 771.117 (c) and is consistent with the requirements for this categorical exclusion. This review, which is based on past experience with similar projects, finds that the project: does not induce significant environmental impacts to planned growth or land use for the area; does not require the relocation of significant numbers of people; does not have a significant impact on natural, cultural, recreational, historical or other resource; does not involve significant air, noise, or water quality impacts; does not have significant impacts on travel patterns; or does not otherwise, either individually or cumulatively, have any significant environmental impact. All rehab/renovation will be conducted on already existing structures and carried out within the existing right of way. Based on the foregoing, SANDAG believes that this project qualifies for a categorical exclusion (CE) pursuant to 23 CFR 771.117 (c) (18) and requests your approval of the same.

122303 CONSTRUCT LINE EQUIP/STRUCTURE - CMAQ

\$24,669,000 \$27,865,130

Finding No. 1 - Class II(c)

C18 - Track & railbed maintenance/improvements

Track and railbed maintenance and improvements when carried out within the existing right-of-way.

Finding Details:

These LOSSAN corridor improvements are located in the cities of San Diego, Carlsbad, Oceanside and Camp Pendleton. These improvements will increase the amount of double track on the 60 mile corridor from 32 miles to 42 miles.

Based on the information submitted, FTA finds that the project qualifies as a categorical exclusion under 23 CFR 771.117 (c) and is consistent with the requirements for this categorical exclusion. This review, which is based on past experience with similar projects, finds that the project: does not induce significant environmental impacts to planned growth or land use for the area; does not require the relocation of significant numbers of people; does not have a significant impact on natural, cultural, recreational, historical or other resource; does not involve significant air, noise, or water quality impacts; does not have significant impacts on travel patterns; or does not otherwise, either individually or cumulatively, have any significant environmental impact. All rehab/renovation will be conducted on already existing structures and carried out within the existing right of way. Based on the foregoing, SANDAG believes that this project qualifies for a categorical exclusion (CE) pursuant to 23 CFR 771.117 (c) (18) and requests your approval of the same.

122303 CONSTRUCT LINE EQUIP/STRUCTURE - CMAQ

0 \$16,751,000 \$18,921,270

Finding No. 1 - Class II(c)

C18 - Track & railbed maintenance/improvements

Track and railbed maintenance and improvements when carried out within the existing right-of-way.

Finding Details:

These LOSSAN corridor improvements are located in the cities of San Diego, Carlsbad, Oceanside and Camp Pendleton. These improvements will increase the amount of double track on the 60 mile corridor from 32 miles to 42 miles.

Based on the information submitted, FTA finds that the project qualifies as a categorical exclusion under 23 CFR 771.117 (c) and is consistent with the requirements for this categorical exclusion. This review, which is based on past experience with similar projects, finds that the project: does not induce significant environmental impacts to planned growth or land use for the area; does not require the relocation of significant numbers of people; does not have a significant impact on natural, cultural, recreational, historical or other resource; does not involve significant air, noise, or water quality impacts; does not have significant impacts on travel patterns; or does not otherwise, either individually or cumulatively, have any significant environmental impact. All rehab/renovation will be conducted on already existing structures and carried out within the existing right of way. Based on the foregoing, SANDAG believes that this project qualifies for a categorical exclusion (CE) pursuant to 23 CFR 771.117 (c) (18) and requests your approval of the same.

California Transportation Commission 2022 Solutions for Congested Corridors Program Guidelines

Existing Average Anr Segment	Existing Average Annual Vehicle Volume on Project Segment			18,770 Trains		
Estimated Year 20 Average Ar Project Segment with Project	Estimated Year 20 Average Annual Vehicle Volume on Project Segment with Project			35,040 Trains		
Measure	Metric	Project Type	Build	Future No Build	Change	Increase/ Decrease
	Change in Daily Vehicle Miles Traveled (VMT)	W	12,286,698	12,373,140	-86,442	Decrease
	Person Hours of Travel Time Saved		98,178	0	98,178	Increase
Congestion	(Optional) Change in Daily Vehicle Hours of Delay	Highway	NA	NA	NA	NA
Reduction	(Optional) Percent Change in Non- Single Occupancy Vehicle Travel	Local Road,	NA	NA	NA	NA
	(Optional) Per Capita and Total Person Hours of Delay per Year	Highway	NA	NA	NA	NA
	(Optional) Other Information	All				
	(Optional) Peak Period Person Throughput – by applicable mode	IIA				
Throughput	(Optional) Passengers Per Vehicle Service Hour	Transit Rail and Transit Bus				
	(Optional) Other Information	All				
	Peak Period Travel Time Reliability Index ("No Build" Number Only)	National and State Highway System Only	NA	NA	NA	NA
System Reliability	Level of Transit Delay	Transit Rail and Transit Bus	NA	NA	NA	NA
	(Optional) Other Information	All				

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Measure	Metric	Project Type	Build	Future No Build	Change	Increase/ Decrease
	Number of Fatalities		439	441	-2	Decrease
	Rate of Fatalities per 100 Million VMT		.005	.005	No Change	No Change
	Number of Serious Injuries		24,592	24,719	-128	Decrease
	Rate of Serious Injuries per 100 Million VMT	ΙΨ	0.280	0.280	No Change	No Change
Safety	(Optional) Number of Non-Motorized Fatalities and Non-Motorized Serious Injuries					
	(Optional) Other Information					
	(Optional) Number or Rate of Property Damage Only Collisions					
	(Optional) Number or Rate of Non- Serious Injury Collisions	Local Road, Highway				
	(Optional) Accident Cost Savings					
Economic	Jobs Created	= <	1,348	0	1,348	Increase
Development	(Optional) Other Information	W.				
	Particulate Matter (PM 10)				25	Increase
	Particulate Matter (PM 2.5)				25	Increase
	Carbon Dioxide (CO2)				-165,882	Decrease
Air Quality and Greenhouse Gases	Volatile Organic Compounds (VOC)	Ψ			-7	Decrease
	Sulphur Oxides (SOx)				-2	Decrease
	Carbon Monoxide (CO)				-177	Decrease
	Nitrogen Oxides (NOx)				399	Increase

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Measure	Metric	Project Type	Build	Future No Build	Change	Increase/ Decrease
	(Optional) Number of Jobs Accessible by Mode	All				
	(Optional) Access to Key Destinations by Mode	All				
Accessibility	(Optional) Percentage of Population Defined as Low Income or Disadvantaged within ½ mile of a rail station, ferry terminal, or high-frequency bus stop	Transit Rail and Transit Bus				
	(Optional) Other Information	All				
Cost	Cost-Benefit Ratio	= <	2.3	NA	2.3	Increase
Effectiveness	(Optional) Other Information	Ä				